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No. 23] NEW DELHI, SATURDAY, JUNE 6, 1987 (JYAISTHA 16, 1909)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 6th June 1987

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APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-700017

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 29th April, 1987

- 340/Cal/87. Yun-Te Chang. The balancing device for the cutting mechanism of the cold forged machine.
- 341/Cal/87. Juan Ortigosa Garcia. Procedure for the conversion of electrical energy from direct into alternating.
- 342/Cal/87. Projects & Development India Limited. A process for manufacture of urea—nitrate—phosphate fertilizer.
- 343/Cal/87. Projects & Development India Limited. A process for the manufacture of urea—calcium nitrate fertilizer.
- 344/Cal/87. Blagoveschensky Gosudarstvenny Meditsinsky Institut. Wound retractor.
- 345/Cal/87. Projects & Development India Limited. An atomizing nozzle.

The 30th April 1987

- 346/Cal/87. John Alvin Eastin. Manufacturing and using nitrogen fertilizer solutions on a firm. [Divisional dated 17th January, 1984.]
- 347/Cal/87. John Alvin Eastin. Manufacturing and using nitrogen fertilizer solutions on a firm. [Divisional dated 17th January, 1984.]
- 348/Cal/87. John Alvin Eastin. Manufacturing and using nitrogen fertilizer solutions on a firm. [Divisional dated 17th January, 1984.]
- 349/Cal/87. John Alvin Eastin. Manufacturing and using nitrogen fertilizer solutions on a firm. [Divisional dated 17th January, 1984.]
- 350/Cal/87. The Lubrizol Corporation. An improved lubricating composition.
- 351/Cal/87. (1) Institut Problem Mekhaniki Akademii Nauk SSSR; (2) Vsesojuzny Nauchno-Issledovatel'sky Institut Kompleksnogo Ispolzovaniya Molochnogo Syrya. Method and apparatus for drying thermosensitive materials.
- 352/Cal/87. Neste Oy. Procedure for concentrating aqueous alcohol solutions by prevaporation.
- 353/Cal/87. Bowthorpe-Hellermann Limited. Terminating screened power cables. (Convention dated 30-4-1986) U.K.
- 354/Cal/87. Kabel-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Procedure for the manufacture of continuous ingot moulds for continuous casting machines.
- 355/Cal/87. Adam Mullick. Thermoplastic panels having in-built pattern(s) and method of making the same.

The 1st May, 1987

- 356/Cal/87. University of Queensland. Conversion of pre-treated and liquefied starch to ethanol using amyloglucosidase and zymomonas mobilis. (Convention dated 1st May, 1986) Australia.
- 357/Cal/87. IEL Limited. Improved water-in-oil emulsion explosives and process for the preparation thereof.
- 358/Cal/87. Sir Aurobindu Society. Improved rotor for a wind turbine.

The 4th May, 1987

- 359/Cal/87. Vsesojuzny Nauchno-Issledovatel'sky, Proektirovannyi Konstruktor'skiy I Tekhnologicheskii Institut Elektromicheskogo Oborudovaniya (Vniito). Induction-plasma melting plant.
- 360/Cal/87. Hoesch Aktiengesellschaft. Centre-free large antifriction bearing with integrated electrical direct drive.
- 361/Cal/87. Lanxide Technology Company, L.P. Method of making shaped ceramic composites with the use of a barrier.
- 362/Cal/87. Lanxide Technology Company, L.P. Shaped ceramic composites and methods of making the same.
- 363/Cal/87. Galic/Maus Ventures. Method and apparatus for molding articles.

The 5th May, 1987

- 364/Cal/87. Giridhari Lal Agrawal. Improved automatic star delta starter.
- 365/Cal/87. Metallgesellschaft Aktiengesellschaft. Process of burning high-salt coal.
- 366/Cal/87. 1. Mark Efremovich Ivanov, 2. Anatoly Shneerovich Berkovich, 3. Andrei Borisovich Ivanov, 4. Viktor Markovich Olevsky, 5. Maxim Leibovich Ferd. 6. Jury Dmitrievich Barbashov, 7. Valentin Ivanovich Zverev, 8. Kapitolina Mikhailovna Zakharova, 9. Viktor Mikhailovich Lindin, 10. Boris Iosifovich Malkin, 11. Anatoly Petrovich Ponomarev. Process for prilling mineral fertilizers.

The 6th May, 1987

- 367/Cal/87. Manville Corporation. Method for spray applying a refractory layer on a surface and layer produced thereby.
- 368/Cal/87. Institut Problem Modelirovaniya V Energetike Akademii Nauk Ukrainskoi SSR. Optical information carrier, method for erasing information therein, and optical storage device realizing this method.
- 369/Cal/87. Kautar OY. Method for producing hardened cement mineral material especially concrete, and an apparatus for implementation of the method.
- 370/Cal/87. Burlington Industries, Inc. Process for the printing of shaped articles derived from aramid fibers.

APPLICATION FOR THE PATENTS FILED AT THE
PATENT OFFICE, BRANCH, MUNICIPAL MARKET
BUILDING, 3RD FLOOR, KAROL BAGH,
NEW DELHI-110 005

The 13th April 1987

- 309/Del/87. UOP Inc., Method and apparatus for detecting Hydrogen-containing or hydrogen-reactive gases".
- 310/Del/87. UOP Inc., "Process for maximum middle distillate production with minimum hydrogen consumption".
- 311/Del/87. Societe Nationale D'Etude Et De Construction De Moteurs D' Aviation "S.N.E.C.M.A.", smelting furnace charging".
- 312/Del/87. Societe Nationale D' Etude Et De Construction De Moteurs D' Aviation "S.N.E.C.N.A.", "Controlled solidification".
- 313/Del/87. Mabuchi Motor Co, Ltd., "A shallow cup-shaped miniature motor".

314/Del/87. Council of Scientific and Industrial Research, "A process for the development of ablative/fire-Retardant resins/polymers/Composites from casheqnut shell liquid cardanol or their derivatives.

315/Del/87. Council of Scientific and Industrial Research, "A process for the desilication of black/green Liquor for recovery of paper Grade lime in paper mills".

316/Del/87. Council of Scientific and Industrial Research, "Process for the preparation of a catalyst composite material".

317/Del/87. Council of Scientific and Industrial Research, "A process for the preparation of cold bonded Iron ore pellets using granulated blast furnace slag alongwith activators".

318/Del/87. Modern Balance Works, "A negative ion generator".

The 14th April 1987

319/Del/87. Sangamo Weston, Inc., "Solid state electricity meter display".

320/Del/87. Aristech Chemical Corporation, "Deactivation of aluminum alkyls".

321/Del/87. Astra-Vent AB, "An arrangement for generating an electric corona discharge in air".

322/Del/87. Piaggio & C.S.p.A., "Belt transmission unit for self-propelled vehicles, provided with engine start-up device".

323/Del/87. Ashok Kumar Gupta, "Watch-cum-timer".

The 15th April 1987

324/Del/87. Council of Scientific and Industrial Research, "Multi-surface solar still".

325/Del/87. Council of Scientific and Industrial Research, "Process for the preparation of a catalyst composite material".

326/Del/87. Council of Scientific and Industrial Research, "A machine for dragging coke from beehive coke ovens".

327/Del/87. Council of Scientific and Industrial Research, "An improved process for manufacturing metal matrix components".

328/Del/87. The Babcock & Wilcox Company, "Updating physical property correlations with laboratory data".

329/Del/87. The International Paper Box Machine Co, Inc., "Apparatus for feeding sheet material".

330/Del/87. The Babcock & Wilcox Company, "Connector clip for ribbon cable equalize".

331/Del/87. Westinghouse Brake and Signal Company Limited, "Vehicle brake equipment".
(Convention date 26th September, 1986, U.K.).

332/Del/87. The British Petroleum Company P.L.C., "Phase conjugate reflecting media".
(Convention date 24th April, 1986, U.K.).

The 16th April 1987

333/Del/87. Mangal Singh, "Irrigation turbine pump cum machine".

334/Del/87. UOP INC., "Middle distillate producing hydro-cracking catalyst".

335/Del/87. The Lubrizol Corporation, Lubricant and fuel additives derived from O, O-Dialkyldithiophosphoric acid and a norbornyl reactant".

336/Del/87. Stanedyn, Inc., "Method and apparatus for regulating fuel injection timing and quantity".

337/Del/87. Champion Spark Plug Europe S.A., and others, "Wiper system for motor vehicles".

338/Del/87. Frank Wesley Moffett, JR., "Growing medium for plants".

APPLICATION FOR PATENTS FILLING AT FOR
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002

The 20th April 1987

286/Mas/87. K. SESHARDI and SHANTILAL P. JOSHI. Iron particles separator.

287/Mas/87. G. VENKATRAMANA BHAT, "Electricity produced from Slow moving Water".

288/Mas/87. FLUID TECHNOLOGY (AUST) LIMITED. Fluid Injection System. (April 18th 1986, Australia).

289/Mas/87. ENICHEM BASE S.P.A. A Method of Preparing low or Medium-Density straight-Chain Polymethylene and Catalysts Suitable for this Purpose.

290/Mas/87. AMERICAN STANDARD INC., "Freight Brake control Valve having an emergency piston slide valve arranged to provide an accelerated brake application function".

The 21st April 1987

291/Mas/87. MATHEW VERGHES, Conlialled sterile filling.

292/Mas//87. LINDKUND PLAST A/S. Foil Bag.

The 22nd April 1987

293/Mas/87. CANTAMESSA G.F. S.P.A. Process for washing insulators and/or insulator chains supporting electric live lines, and apparatus for carrying out said process.

294/Mas/87. MICHELIN & CIE. A Mold for the Manufacture of Reinforcements for tires.

295/Mas/87. MICHELIN & CIE. Method and apparatus for the Manufacture of Reinforcements for tires.

296/Mas/87. HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN. "Preparations for Finishing Textiles".

The 23rd April 1987

297/Mas/87. LINDE AKTIENGESELLSCHAFT, Process for Simultaneous Production of Methanol and Carbon Monoxide.

298/Mas/87. ZELLWEGER USTER LIMITED. Process for issuing measuring results in graphic form in test apparatus for testing textile goods such as yarn, roving or sliver and apparatus for carrying out the process.

299/Mas/87. SANTRADE LIMITED. "Cemented carbide with a binder phase gradient and method of making the same".

300/Mas/87. OY PARTEK AB. A Method and Device for Manufacturing a Mineral Wool Web.

The 24th April 1987

301/Mas/87. ANNAMALAI KALANETHI, Automatic daily engagement Announcer/Dual Presettable On/Off Timer-Controller-Recorder.

ALTERATION OF DATE

159733. Ante dated 6th April, 1981.
(565/Del/83)

159758. Ante dated to 18th January, 1979.
(532/Del/82)

159799. Ante dated to 21st October, 1980.
(62/Mas/84)

159832. Ante dated to 29th January, 1981.
(642/Del/84)

COMPLETE SPECIFICATION ACCEPTED

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Int. Cl. : 172-D, 159688

Int. Cl. : D 01 h 7/00, 7/92.

FRICTION SPINNING APPARATUS.

Applicant : HOLLINGSWORTH (UK) LIMITED, P.O. BOX 55, SCAITCLIFFE STREET, ACCRINGTON, LAN-CASHIRE, BB5 0RN, ENGLAND.

Inventors : 1. ALAN PARKER, 2. WILLIAM MICHAEL FARNHILL.

Application No. 1369/Cal/83 filed November 7, 1983.

Convention dated 9th November, 1982 (82 31908) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Friction spinning apparatus comprising :

two rotatable members arranged in closely spaced relationship so as to define therebetween adjacent the line of closest approach a throat, said rotatable members being adapted to rotate in a common sense of rotation about their own axes so that one of them moves into the throat and the other moves out of the throat; and

a fibre feed means for feeding fibres into the throat for twisting into yarn, characterised in that the surface of each of the rotatable members has a roughness characteristic in the range 1 to 6.35 microns.

Compl. specn. 8 pages.

Drg. Nil

CLASS : 150-G

159689

Int. Cl. : F 16 l 25/00.

PIPE CONNECTOR.

Applicant & Inventor : CLIVE NEAL TAYLOR, OF 12 FERN CLOSE, BURTON, CHRISTCHURCH, DORSET, ENGLAND.

Application No. 1401/Cal/83 filed November 16, 1983.

Convention dated 16th November, 1982 (82 32690) U.K.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Officer, Calcutta.

10 Claims

A pipe connector comprising a body having a bore for receiving an end portion of a pipe, said bore being provided with a first circumferentially extending groove arranged to co-operate with a circumferentially extending groove provided on the exterior of said end portion of a pipe, a passageway provided in said body and extending from said first groove to the exterior of said body, a second circumferentially extending groove provided in said bore, a sealing ring disposed in said second groove for sealing engagement with the exterior of said end portion of a pipe, said first groove when co-operating with a groove on the end portion of a pipe forming therewith a channel in which a retaining rod or wire is inserted by being passed through said passageway, said first groove having a side wall which is inclined relative to the axis of the bore.

Compl. specn. 7 pages.

Drg. 3 sheets

CLASS : 32-F₂ c+55-E₁

159690

Int. Cl. : A 61 k 23/00, 27/00; C 07 c 97/02.

IMPROVEMENTS IN OR RELATING TO PROCESS FOR THE PREPARATION OF 5-DIETHYLAMINO PENTAN-2-ONE.

Applicant : RECKITT & COLMAN OF INDIA LIMITED OF 41, CHOWRINGHEE ROAD CALCUTTA-700071, STATE OF WEST BENGAL, INDIA.

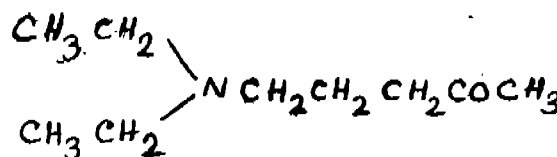
Inventors : 1. DR. SURENDRA PRASAD BHATNAGAR, 2. DR. AJAI PRAKASH, 3. DR. RAMANUJAM SRINIVASA PRASAD.

Application No. 1421/Cal/83 filed November 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Improved process for the preparation of 5-diethylamino-pentan-2-one of Formula I of the accompanying drawing,



which comprises reacting 5-chloropentan-2-one with diethylamine characterized in that the reaction is carried out in presence of an aprotic polar solvent selected from N, N-dialkylamide solvents at a temperature of at least 90°C.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 145-B;

159691

Int. Cl. : G 11 b 5/00.

A POSTAL MODULE.

Applicant & Inventor : CONTI ROMANO, OF 37, VIA PIER DELIA FRANCESCA, PRATO, ITALY.

Application No. 1447/Cal/83 filed November 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Clim

CLASS : 113 I C

159694

Int. Cl. : B 60 Q-1/00.

AN APPARATUS FOR AUTOMATIC CONTROL FOR AUTOMOBILE LIGHTS & DIPPER.

Applicant : MANTOSH CHANDRA AN INDIAN NATIONAL & KESHAV C VERMA A BRITISH NATIONAL BOTH RESIDING AT B-35, KAILASH APARTMENTS, KAILASH COLONY, NEW DELHI.

Inventors : MANTOSH CHANDRA, KESHAV C VERMA.

Application for Patent No. 486/DEL/1983 filed on 18th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

2 Claims

An apparatus for automatic control for automobile lights and dipper, comprising a tube with a lens fitted at its one end adapted to focus light onto a internally placed light sensor, and having a light dependent resistor; the said light dependent resistor being connected in series to the first and second stage of an electronic circuit; a third stage of the said electronic circuit being connected in parallel to the said light dependent resistor;

the said first stage of the circuit being connected to the parking lights through a first relay acting as a switch enabling the parking lights to be switched on automatically at dusk independent of operation of the parking switch when the ignition switch is on the said first stage having a first transistor which is conducted by the high resistance of the light dependent resistor at dusk and which switches a second transistor through a time comprising a first integrated circuit; the said first relay being connected to the collector of the said second transistor which provides the current to energise the said first relay;

the said second stage of the circuit being connected to the headlamp dipper through a second relay, and having a third transistor and a second integrated circuit which acts as a voltage comparator enabling the main beam to be dipped automatically to head lights when approached by an oncoming vehicle having its main beams on; a safety timer circuit to avoid interruption of the beam falling on the light dependent resistor.

Compl. specn. 8 pages.

Drgs. 2 sheets

CLASS : 172D.

159695

Int. Cl. D01-1/04.

A PEDAL OPERATED FIBRE SPINNING MACHINE.

Applicant & Inventor : MOHAMMED SHAKIR QIDWAI, AN INDIAN NATIONAL, C/O. VIKAS ENGINEERING CORPORATION, MAUNI MANDIR, SULTANPUR, U.P., INDIA.

Application for Patent No. 498/DEL/1983 filed on 23rd July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A pedal operated fibre spinning machine comprising a stand supporting a flyer, spindle rotatably secured to the said flyer, one or more hooks provided on the said flyer for supporting the fibres during their passage from a feed inlet tube to said spindle, a pedal supported on said stand for rotating a flywheel connected to said flyer or spindle to rotate the flywheel and spindle together.

Compl. specn. 5 pages.

Drgs. 2 sheets

A postal module, of the foldable and sealable type, separable from a continuous strip of modules suitable to be passed through a printer and then through a cutting unit in which individual modules are separated from the strip characterised by the fact that : the single module is made up of at least four sections defined by parallel fold lines for repeated folding; that on one of the external sections of the module, in the fully-folded configuration, a window is provided for the address; that the useful face of said sections is surrounded by a perimetrical strip for permanent sealing to assure the invariability of said face; that the reverse side of said useful face is provided with means for non-permanent glueing in such a manner that the faces of the sections brought into contact by effect of the fold or folds following the first are joined in such way as to be re-openable; and that means are provided for cutting three sides of the module in the configuration assumed after the first fold, to the exclusion of the line of said first fold.

Compl. specn. 20 pages.

Drg. 5 sheets

CLASS:88D

159692

Int. Cl. : C 10 j 1/16.

A BIO GAS DIGESTER.

Applicant : MOHAMMED SHAKIR QIDWAI, VIKAS ENGINEERING CORPORATION, MAUNI MANDIR, SULTANPUR, U.P. INDIA, AN INDIAN NATIONAL.

Inventor : IDEM.

Application for Patent No. 446/DEL/1983 filed on 1st July, 1983.

Complete Specification left on 28th Aug. 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A bio gas digester comprising chamber having an inlet for introduction of the feed slurry, an outlet for discharge of spent slurry, of said chamber, a gas discharge outlet provided with hood characterized in an expanded metal or wire mesh sheet provided in the dome or hood whereby the movement of the slurry against said expanded metal or wire mesh prevents formation of the scum.

(Provisional Specification 5 pages)

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 155 F 2

159693

Int. Cl. : D 06m 15/42.

A METHOD OF TREATING A GLASS FIBRE OR FILAMENT HAVING FLAME RETARDANT PROPERTIES.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventor(s) : DATTA PRASAD ACHYOT SABHOLKAR, GEETA UNNIKRISHNAN & PRAKASH SINGH.

Application for Patent No. 455/DEL/83 filed on 5th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for treating a glass fibre or filament having flame retardant properties which comprises in passing the fibre or filament through a bath consisting only of a flame retardant polyester based resin having the required halogen content for flame retardancy, a Gardner colour index of 2 to 3 and an acid value of 40 ± 2 mg. KOH/gm.

Compl. specn. 7 pages.

Drg. no sheet

CLASS : 63 G, 127 D

159696

Int.Cl. : H 02 k 7/116.

A GEAR BOX FOR OSCILLATING ELECTRIC FANS.

Applicants : THE JAY ENGINEERING WORKS LIMITED, OF 23 KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, A COMPANY INCORPORATED IN INDIA.

Inventor : MANIK CHANDRA BHOUMIK.

Application for Patent No. 571/DEL/83 filed on 23rd August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A gear box for oscillating electric fans comprising a housing consisting of a circular frame fixed to the casing of the fan motor, and a hollow body portion connected to the circular frame by a plurality of arms, or flanges a floating pinion shaft assembly mounted in opposite walls of the body portion, the said assembly including a worm gear engaging a worm pinion on the shaft of the motor and a clutch mechanism for securing the worm gear to the pinion shaft, a spur gear engaging the pinion shaft, a cam located outside the housing, fixed to outer end of the shaft of the spur gear, and a lever pivoted at one end to the crest portion of the cam and at the other end pivoted to fixed support member of the fan, the rotation of the pinion shaft resulting in oscillation of the rotor casing and the gear box.

Compl. specn. 9 pages.

Drgs. 2 sheets

CLASS : 48 A₂ D₄

159697

Int. Cl. : HO 2g-1/14 & F 16L-3/00.

A DEVICE FOR SUPPORTING A MEMBER.

Applicant : VINAY AGARWAL, AN INDIAN NATIONAL OF D 147, EAST OF KAILASH, NEW DELHI-110065, INDIA.

Inventor : VINAY AGARWAL.

Application for Patent No. 583/DEL/1983 filed on 26th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A device for supporting a member or joining two similar members, such as conduits or pipes, comprising a base member having a first arm extending from one end of said base member a second arm extending from the opposite end of said base member, each of said arms capable of an angular displacement with respect to said base member, said first and second arms having a releasable locking means at one end, the opposite ends of said first and second arms being free ends, said first and second arms being angularly displaced away from each other so as to allow an introduction of said conduits or pipes and made to bear against said free ends of said first and second arms so that the arms are urged towards each other and allow a locking of said arms by said locking means.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 44

159698

Int. Cl. : GO 6 F-1/04.

A DIGITAL ANALOGUE CLOCK.

Applicant : CHIEF ENGINEER, RESEARCH AND DEVELOPMENT, ALL INDIA RADIO, I.P. ESTATE, 14B, RING ROAD, NEW DELHI-110002, INDIA, AN INDIAN ORGANISATION.

Inventors : NAND KISHORE TRIVEDI POOVANA-LINGAM SHAUMUGA SUNDARAM SAILENDRA SAHAI, SUBRATA KUMAR ADAK.

Application for Patent No. 586/DEL/1983 filed on 26th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A digital analogue clock comprising an oscillator having an output frequency of 60 cycles/sec., a frequency divider circuit connected to the output of said oscillator for providing an output consisting of a first division of said frequency, a seconds time circuit connected to the output of said divider circuit for providing an output consisting of a second division of said frequency, said second time circuit comprising a first and second decade counter connected in tandem relationship, said first decade counter having an input terminal connected to the output terminal of said divider circuit, said first decade counter having a plurality of output terminals each connected to its respective light emitting diode through a first buffer circuit, the last of said terminals connected to the input terminal of said second decade counter, the output terminal of said second decade counter connected to its respective light emitting diodes through a second buffer circuit, the output terminal of said seconds time circuit also connected to the input terminal of a minutes time circuit for providing an output consisting of a third division of said frequency, the output terminal of said minutes time circuit connected to its respective light emitting diodes, the output terminal of minutes time circuit connected to an hour time circuit, the output terminal of said hour time circuit connected to a digital display.

Compl. specn. 13 pages.

Drg. 1 sheet

CLASS : 201 D

159699

Int. Cl. : D 21 d 5/26 & BO 1 j 4/00.

APPARATUS FOR PROVIDING DEAERATED STOCK TO A PROCESSING MACHINE.

Applicant : CLARK & VICARIO CORPORATION OF 10600 ENDEAVOUR WAY, PINELLAS PARK, FLORIDA 33565, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF FLORIDA, U.S.A.

Inventor : ROBERT GEORGE KAISER.

Application for Patent No. 610/Del/83 filed in 6th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

31 Claims

Apparatus for providing deaerated stock to a processing machine, said apparatus comprising;

- (a) an enclosed receiver comprising at least one vessel;
- (b) means for maintaining said enclosed receiver under a vacuum;
- (c) means for introducing stock into said enclosed receiver to thereby produce deaerated stock in said enclosed receiver at a predetermined average production rate;
- (d) stock supply means for supplying stock to be deaerated to said introducing means;
- (e) receiver open to the atmosphere;
- (f) a conduit for conducting deaerated stock from said enclosed receiver to said open receiver, said conduit having an inlet end connected to said enclosed receiver and an outlet end disposed within said open receiver;

(g) means for withdrawing stock from said open receiver at a net rate of withdrawal lower than said average production rate, so that stock accumulates as a pond in said open receiver and the outlet end of said conduit is submerged in the pond, said withdrawing means including a conduit connected to said open receiver and said processing machine for transferring the withdrawn stock to the processing machine;

(h) pond level control means including a passage communicating with said open receiver or a weir bordering said open receiver for discharging a recycle portion of stock from said open receiver, increasing the rate of such discharge upon any increase in the level of the pond and decreasing the rate of such discharge upon any decrease in the level of the pond to thereby maintain the pond of stock in said open receiver at a predetermined level;

(i) recycle means for passing the recycle stock discharged by said pond level control means to said introducing means.

Compl. Specn. 83 pages.

Drg. 10 sheets.

CLASS : 76 E & 138 D

159700

Int. Cl. : F 16 b, 15/08 & B 29 d, 31/00.

"METHOD OF MANUFACTURING AN ASSEMBLAGE OF FASTENERS".

Applicant : DENNISON MANUFACTURING COMPANY, a Nevada corporation with its principal place of business at 300 Howard Street, Framingham, Massachusetts 01701, U.S.A.

Inventors : PARADIS JOSEPH ROMEO.

Application for Patent No. 642/Del/1983 filed on 11th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A method of manufacturing an assemblage of fasteners made of a crystalline material such as nylon, polyethylene, polypropylene, polyester, acetal resins and the like whose molecules are reoriented by stretching which method comprises the step of :

(a) molding the assemblage as a set of connected individual fasteners, each individual fastener having end members, said end members being joined to each other by a filament, and characterised in the step of

(b) simultaneously stretching the filament of each said individual fastener while heating said filament below the melting of the filament with a heated probe at a preselected position along the length of the filament.

Compl. Specn. 14 pages.

Drgs. 5 sheets.

CLASS : 173 A.

159701

Int. Cl. B05b-1/12, 1/20.

"A WATER SPRINKLER".

Applicant : HARILAL CHABLANI, of 4 Ka-34, Jawahar Nagar, Jaipur-4 (Rajasthan) India, an Indian national.

Inventor : HARILAL CHABLANI.

Application for Patent No. 716/Del/1983 filed on 26th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A water sprinkler comprising a frame for rotatably supporting a front wheel and a rear wheel, drive means for driving said rear wheel, a sprinkler arm having a plurality of spaced orifices mounted on said frame, said sprinkler arm adapted to be connected to a water source for causing a sprinkling operation, said drive means also adapted to be connected to said water source for causing a drive to said rear wheels.

Compl. Specn. 6 pages.

Drgs. 3 sheets.

CLASS : 208.

159702

Int. Cl. B43k-5/00, 8/00.

"A TUBULAR WRITING INSTRUMENT."

Applicant : ROTRING WERKE RIEPE KG, a German corporation, of Kieler Strasse 301-3030, P. O. Box 541060, 2000 Hamburg 54, Federal Republic of Germany.

Inventor : GEROLD ANDERKA AND ROLF TEN-HAGEN.

Application for Patent No. 755/Del/1983 filed on 11th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A tubular writing instrument comprising :

a writing fluid tank inserted onto a cylindrical body

from the rear end thereof;

said cylindrical body provided with an inner bore communicating with said tank;

a writing tubule carried at the forward end of said cylindrical body;

an ink compensating means provided in sealing engagement with and about said cylindrical body;

said ink compensating means comprising of an inner ink compensating chamber and an outer ink compensating chamber;

said inner ink compensating chamber being defined by the outer surface of said cylindrical body and the inner surface of a sheath body, said sheath body, which is separate from the said writing fluid tank, being interposed between said cylindrical body and a sheath element such that a rearward end of said sheath body is in sealing engagement with said cylindrical body and said sheath element;

said outer ink compensating chamber being defined by the outer surface of said sheath body and the inner surface of said sheath element;

a transverse bore in said cylindrical body which communicates between said inner bore and the forward end of said inner ink compensating chamber;

an opening defined between said cylindrical body outer surface and said sheath element so that the forward end of said outer ink compensating chamber communicates there through to ambient air;

and a connecting bore provided in said sheath body so that the rearward end of said ink compensating chamber communicates there through with said outer ink compensating chamber.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 206A.

159703

Delhi-110 049, India, an Indian Institute registered under the Societies Act.

Int. Cl. HO1q-1/00, 1/12.

"A GEOSTATIONARY SATELLITE TELECOMMUNICATIONS ANTENNA SUPPORT."

Applicant : THOMSON-BRANDT, of 173, boulevard Haussmann, 75008 Paris, France Company.

Inventor : JEAN-YVES REPUSSARD.

Application for Patent No. 758/Del/1983 filed on 14th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

13 Claims

A. geostationary satellite telecommunications antenna support comprising :

a body, said body being connected to a mast by an adjustable fixing means to ensure fixation of the body to the mast and by means to adjust and lock the antenna at azimuth angle, a leg connected to the antenna being articulated on the body so as to allow the change of the site angle of the antenna, the said adjustable fixing means includes a ring that bears on the top of the mast, and arms at one end connected to the ring that allow, the centering on the axis of rotation of the azimuth on the mast, and also bear on the leg and the antenna itself.

Compl. Specn. 10 pages.

CLASS : 194 B, 206 E.

159704

Int. Cl. : HO1 1 15/00, HO1 j 39/00.

"AN IMPROVED GLOW DISCHARGE DEPOSITION APPARATUS".

Applicant : ENERGY CONVERSION DEVICES, INC., a Delaware corporation having a place of business at 1675 West Maple Road, Troy, Michigan 48064, U.S.A.

Inventor : PREM NATH & MASATSUGU IZU.

Application for Patent No. 840/Del/83 filed on 14th December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972), Patent Office Branch, New Delhi-110 005.

19 Claims

An improved glow discharge deposition apparatus for depositing on to a substrate a layer of an amorphous semi-conductor by establishing a glow discharge in precursor gases of said semi-conductor which comprises a deposition chamber, a gas supply manifold connected to said chamber for introducing therein a flow of said precursor gases, an exhaust port provided in said chamber for exhausting therefrom spent precursor gases, a cathode provided in said chamber for establishing a glow discharge in said precursor gases flowing from said manifold to said exhaust port, said glow discharge being located between said cathode and an electrically conducting substrate, the said substrate also located within said chamber and a pre-cathode provided in said chamber along the path of flow of said precursor gases, said pre-cathode being disposed between said manifold and said cathode and establishing an initial glow discharge in said precursor gases before said gases pass between said cathode and said substrate.

Compl. Specn. 41 pages.

Drgs. 6 sheets.

CLASS : 85 P.

159705

Int. Cl. : C22b 1/00.

"A VERTICAL SHAFT PRECALCINING REACTOR".

Applicant : CEMENT RESEARCH INSTITUTE OF INDIA, of M-10 South Extension, Part-II, Ring Road, New

Inventors : HOSAGRAHARA CHANDRASEKARATHAH VISVESVARAYA; JAYANT DATTATREYA BAPAT; VINAY KUMAR JAIN; TARUN KUMAR CHAUDHARY RAJINDER SINGH; MIDDALI VENKATARANGA RAO; PRADDEP OTTO and ASHWININI PAHUJA.

Application for Patent No. 808/Del/83 filed on 1st December, 1983 and post dated to 1st January, 1984.

Complete Specification left on 27th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972), Patent Office Branch, New Delhi-110 005.

3 Claims

A vertical shaft precalcining reactor for nodules formed of dry raw meal or slurry comprising a vertical chamber, the top portion of said chamber having a feed hopper for nodules characterized in that the top and bottom portion of said chamber is conical, the said top portion having a pipe extending into the said chamber for connection to an induced draught fan and the discharge outlet in the said bottom portion connected to the inlet end of a cement calcining kiln.

Provisional Specn. 4 pages.

Compl. Specn. 6 pages.

Drg. 1 sheet.

CLASS : 130 G.

159706

Int. Cl. : C 01 b 33/02.

METHOD FOR THE PRODUCTION OF HIGH-PURITY SILICON.

Applicant : ELKEM A/S, A COMPANY INCORPORATED UNDER THE LAWS OF NORWAY OF MIDDELTHUNNS GATE 27, OSLO 3, NORWAY.

Inventor : Gunnar Halvorsen.

Application No. 78/Mas/84 filed February 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A method of producing high-purity silicon, which comprises adding a calcium and/or strontium compound to molten metallurgical-grade silicon in such an amount that molten silicon alloy containing 1—10% by weight of Ca or strontium or a mixture thereof is obtained, casting the silicon alloy in a mould and cooling it therein at a relatively slow cooling rate, subjecting the cooled solid cast material to a first leaching treatment with an aqueous solution of FeCl_3 , or of $\text{FeCl}_3 + \text{HCl}$, to cause disintegration of the silicon metal, washing the disintegrated silicon to remove any fines, and then subjecting it to a second leaching treatment with an aqueous solution containing HF and HNO_3 to dissolve away impurities leaving the purified silicon.

Compl. Specn. 10 pages.

Drg. Nil.

CLASS : 146 F

159707

Int. Cl. : G 01 k 1/00, 5/00.

"IMPROVED HFAT-RESPONSIVE PACIFIER ASSEMBLY".

TRP ENERGY SENSORS, INC., of Highway 34, Wall Township, New Jersey 07719, U. S. A., a Company incorporated under the laws of the State of New York, U. S. A.

Application No. 95/Mas/84 filed 14 February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

15 Claims

An improved heat-responsive pacifier assembly, comprising:

- a pacifier body including a nipple portion defining an interior chamber; and
- a temperature responsive element disposed in said interior chamber of said nipple portion of said pacifier body, said temperature responsive element being formed of an elongated strip having a temperature display means including a liquid crystal composition displaying a color change at a temperature between 98.6°F and 101°F.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 56 F

159708

Int. Cl. : C 10 g 11/02.

IMPROVEMENTS IN OR RELATING TO A PROCESS FOR CONVERTING CARBONACEOUS STARTING MATERIALS SUCH AS CRUDE OIL, RESIDUES THERE-OF TO OBTAIN PRODUCTS OF LOWER VISCOSITY.

Applicant & Inventor : DR. ROLLAN SWANSON, A CITIZEN OF THE U. S. A., C/O CHEMROLL ENTERPRISES, INC., 100 WALL STREET, NEW YORK, NY, 10005, U. S. A.

Application No. 134/Mas/84 filed February 29, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

25 Claims

An improved process for converting carbonaceous starting materials such as a heavy crude oil, a natural asphaltic material, a natural tar, a pitch, a Gilsonite, a slurry oil, a solvent extracted asphaltene; a pitch or a tar derived from coal; a petroleum residue; oil, resin and asphaltene mixtures; or an oil-resin-asphaltene fraction of a distillate having a boiling point of upto 850°F+ and higher; a distillation residue having no boiling point below destructive distillation of same; a coal oil extract; a bottom fraction of retorted shale oil; a heavy bottom from coal gasifiers; a delayed cooking product distillation bottom or mixtures of the fore-going, in the presence of an alkali metal sulfide catalyst without the addition of hydrogen gas as a reactant to obtain products of lower viscosity and/or more hydrogenated, the improvement comprising:

- (a) reacting at least one said carbonaceous starting material adiabatically at a pressure less than atmospheric to less than 150 psi at a temperature from 160°C to 600°C, in a first reaction zone in the presence of added water in form of steam and a catalyst, said catalyst

comprising said alkali metal sulfide catalyst and an additional cleavage catalyst of at least 5% for pre-treating in said first reaction zone the refractory components in said starting material, said cleavage catalyst being in admixture with said alkali metal sulfide catalyst for treating said refractory components in said starting material; wherein said cleavage catalyst is a supported or unsupported catalyst composition comprising:

- (1) a first solution of an alkali metal hydroxide dissolved in methanol, ethanol, 1-propanol or 1-butanol or mixtures of these alkanols; or
- (2) a second solution of said alkali metal hydroxide-alkanol as defined in (1) above to which water dissolved alkali metal hydroxide has been added and wherein said alkali metal hydroxide, on a mole basis, in said solution is from 0.5 : 1 to 1 : 0.5,

2-97 GI/87

said first or second solution being saturated with hydrogen sulfide, such that in either solution:

- (i) a single phase solution forms, or

- (ii) a two phase solution forms,

said catalyst composition being said single phase solution of (i), said two phase solution of (ii), each of the phase of (ii), taken individually, mixtures of the phases of (ii) with each other, a mixture of each of the individual phases of (ii) with the single phase solution of (i), or a mixture of the two phases of (ii) with each other taken with the single phase of (i);

- (b) recovering a top reaction product from said first reaction zone, including gases as vaporous or gaseous products and separating bottom products;

- (c) recycling bottom products, or separating as bottom products in a parallel stream, from the top products from said first reaction zone, said bottom products being liquid products, entrained liquid products, or partially pretreated refractory components in said starting materials recovered from the top products from said first reaction zone;

- (d) reacting adiabatically at a temperature upto 560°C in presence of initially introduced steam, or added steam, the separated bottom products in the presence of said cleavage catalyst as defined in (a) above and said alkali metal sulfide catalyst thereof, and

- (e) recovering the products produced in step (d) in a conventional manner.

Compl. Specn. 91 pages.

Drgs. 2 sheets.

CLASS : 55 E.

159709

Int. Cl. : A 61 k 27/06.

PROCESS FOR THE PREPARATION OF PHARMACEUTICAL COMPOSITIONS HAVING ANTINEOPLASTIC ACTIVITY.

Applicant : F.C.N. S.R.L., VIA S. BOSCO, 3 TREVIGLIO, BERGAME, ITALY ITALIAN COMPANY; AND ALPHATIME LIMITED, OF ST. PETER HOUSE, 119 HIGH STREET, BERKHAMSTED, HERTFORDSHIRE, GREAT BRITAIN A BRITISH COMPANY.

Inventors : EMANUEL REVICI.

Application No. 145/Mas/84 filed 8th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A process for the preparation of pharmaceutical compositions with antineoplastic activity which comprises adding an aliphatic ketone having odd number of carbon atoms into a selenium compound formed by the reaction of selenium with tung oil, optionally in the presence of known alcohols having odd number of carbon atoms, polyalcohols, glycerol, aminoalcohols, nicotinic acid, aminobenzoic acids or known corticosteroids.

Compl. Specn. 7 pages.

CLASS : 42 D.

159710

Int. Cl. : A 24 b 5/16.

"PROCESS AND APPARATUS FOR MAKING EXPANDED TOBACCO STEMS".

Applicant : KOREA GINSENG & TOBACCO RESEARCH INSTITUTE of 302, SHINSUNG-DONG, JOONG-KU, DFEJUN-SHI CHUNGCHUNGNAM-DO, KOREA, A RESEARCH INSTITUTE ORGANISED UNDER THE LAWS OF REPUBLIC OF KOREA.

Inventors : 1. KWANG KEUN YOO, 2. KIHWAN KIM, 3. YOUNG HYUN CHOI, 4. TAE HO LEE.

Application No. 164/Mas/84 filed on 13th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

A process for making expanded tobacco stems comprising sucking the tobacco stems through a hermetically sealed connection tube system into an expanding tube by means of suction power generated by passage of a jet of gas into the expanding tube through aventuri construction wherein the temperature of the main portion of the expanding tube is maintained at 88 to 98°C and the temperature of the discharge end of the expanding tube is maintained at 40 to 60°C and thus causing the tobacco stems to expand in the expanding tube.

Compl. Specn. 15 pages.

Drgs. 2 sheets.

CLASS : 23 H & 99A

159711

Int. Cl. : B 65 d 7/00.

"CONTAINERS WITH REPLACEABLE LIDS".

Applicant : METAL BOX P.L.E. A BRITISH COMPANY OF QUEENS HOUSE, FORBURY ROAD, READING, RG1, 3 JH, BREKSHIRE, ENGLAND.

Inventor : DONALD KENNETH RUDD.

Application for Patent No. 188/Mas/83 filed on 22nd March, 1984.

Convention date on 23rd March, 1983/83 07987, (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A container having a tubular body closed at one end by a lid having a closure panel and a skirt extending from the closure panel to surround a marginal portion near said one end of the tubular body, the lid and the body being held together by co-operating means of the body, sidewall and skirt such that opposed pinching forces applied to the skirt disengage the co-operating means to permit removal of the lid from the body, characterised in that, the lid is made from sheet metal and the skirt defines with the body a clearance and extends from the closure panel to terminate in an inwardly directed curl flexible under the influence of the opposed pinching forces so that whilst the opposed pinching forces are applied to the skirt of the lid, the internal girth of the inwardly directed curl exceeds the girth of co-operating interlocking means of the body to permit opening of the lid.

Compl. Specn. 16 pages.

Drgs. 4 sheets.

CLASS : 195 B, 131 A 1, 131 A 2

159712

Int. Cl. : E 21 d 23/16.

A VALVE ASSEMBLY FOR USE WITH A HYDRAULIC MINE ROOF SUPPORT.

Applicant : DOBSON PARK INDUSTRIES PLC., A BRITISH COMPANY OF DOBSON PARK HOUSE COLWICK INDUSTRIAL ESTATE, NOTTINGHAM, ENGLAND.

Inventors : 1. NIGEL JAMES PETTS, 2. JOHN MARSH.

Convention date on 26th March 1983./8308382/U.K.

Application for Patent No. 194/Mas/84 filed on 24th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A valve assembly for use with a hydraulic mine roof support, the valve assembly comprising a main supply passage, an outlet end of which is connected in use to the hydraulic mine roof support and an inlet end of which will be connected in use to a main control valve for

supplying hydraulic fluid under pressure to the hydraulic roof support, and a bypass supply passage, an outlet end of which is connected to the outlet end of the main supply passage and an inlet end of which is connected in use to source of hydraulic fluid under pressure, the bypass supply passage containing a non-return valve and a pressure sensitive valve, the pressure sensitive valve being arranged to open on a predetermined pressure being sensed in the main supply passage to permit hydraulic fluid under pressure to flow through the bypass supply passage via the pressure sensitive valve and the non-return valve to the outlet end of the main supply passage, the non-return valve having a valve member which is at least part-spherical and arranged to make line contact with a valve seating.

Compl. specn. 16 pages.

Drgs. 3 sheets

CLASS : 32 F2 (b)

159713

Int. Cl. : C 07 d 31/00, 51/00, 91/00 & 93/00.

PROCESS FOR PREPARING NITROGEN-CONTAINING HETEROCYCLIC COMPOUNDS.

Applicant: SUMITOMO CHEMICAL COMPANY, LIMITED OF NO. 15, HIGASHI-KU, OSAKASHI, KITAHAMA 5-CHOME, OSAKA-FU, JAPAN; A JAPANESE COMPANY.

Inventors : 1. SUMIO NISHIDA, 2. NORITADA MATSUO, 3. MAKOTO HATAKOSHI, 4. HIROSI KISIDA.

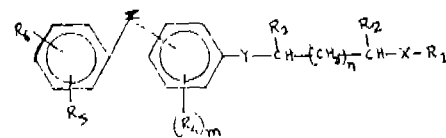
Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

Application No. 289/MAS/84 filed 24th April 1984.

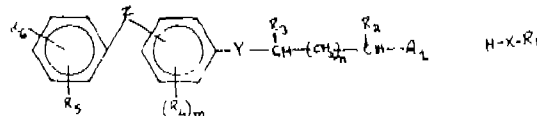
25 Claims

A process for preparing a nitrogen-containing heterocyclic compound of the formula I shown in the drawings

wherein R₁ is a radical selected from the group consisting of: radicals shown in figs. 1 to 7 of the drawings



Formula II



Formula III

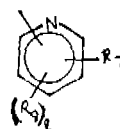


Figure 1

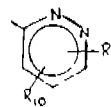


Figure 2

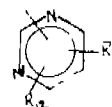


Figure 3

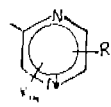


Figure 4

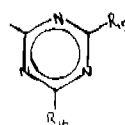


Figure 5

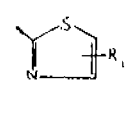


Figure 6

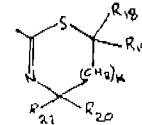


Figure 7

in which $R_7, R_8, R_9, R_{10}, R_{11}, R_{12}, R_{13}, R_{14}, R_{15}, R_{16}$, and R_{17} are the same or different, selected from the group consisting of a hydrogen atom, a halogen atom, a C_1-C_4 alkyl radical, a C_1-C_4 alkoxy radical, a C_1-C_4 alkylthio radical, a trifluoromethyl radical and a nitro radical, R_{18}, R_{19}, R_{20} and R_{21} are the same or different, selected from the group consisting of a hydrogen atom and methyl radical, k is an integer of 0 to 1 and l is an integer of 0 to 3;

R_2 and R_3 are, the same or different, selected from the group consisting of a hydrogen atom, a halogen atom and a methyl radical;

R_4 is selected from the group consisting of a halogen atom and a methyl radical;

R_5 and R_6 are, the same or different, selected from the group consisting of a hydrogen atom, a halogen atom, a C_1-C_4 alkyl radical, a C_1-C_4 alkoxy radical, a C_1-C_4 haloalkyl radical and a C_1-C_4 haloalkoxy radical;

X, Y and Z are, the same or different, selected from the group consisting of an oxygen atom, a sulfur atom and a methylene radical;

m is an integer of 0 to 4; and

n is an integer of 0 to 2;

which comprises reacting a compound of the formula II

wherein $R_2, R_3, R_4, R_5, R_6, Y, Z, m$ and n are each as defined above and A_1 is selected from the group consisting of a halogen atom, a mesyloxy radical and a tosyloxy radical, with a compound of the formula III

wherein R_1 and X are each as defined above or its alkali metal salt in a molar ratio of 1 : 1–10 in the absence or presence of an inert solvent in the existence of an acid accepting agent at a temperature of -70°C to the boiling temperature of the reaction mixture.

Compl. specn. 48 pages.

Drgs. 12 sheets

CLASS : 55 D 2, 39 N

159414

Int. Cl. : A 01 n 7/00, 11/00.

METHOD FOR PREPARING A STABLE SOLUTION OF THIOCARBONATE COMPOUND.

Applicant : UNION OIL COMPANY OF CALIFORNIA, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF CALIFORNIA, U.S.A., OF 461 SOUTH BOYLSTON STREET, LOS ANGELES, CALIFORNIA 90017, U.S.A.

Inventors : 1. DONALD C. YOUNG. 2. JAMES A. GREEN.

Application No. 315/Mas/84 filed 1st May 1984.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

11 Claims

A method for preparing a stable solution of a thiocarbonate compound having an empirical formula M_nCS_x , wherein M is alkali metal, ammonium, or alkaline earth metal, n is 1 when M is alkaline earth metal, n is 2 when M is alkali metal or ammonium, and x is 3, 4, or values between 3 and 4, which method is characterised by reacting in an aqueous medium the components :

(a) a sulfide compound of M ; and

(b) carbon disulfide;

at temperatures from 0°C to the boiling point of carbon disulfide, and adding a base in sufficient amounts to obtain pH values greater than 7.

Complete specification 46 pages.

CLASS : 92 J

159715

Int. Cl. : A 23 n 5/00.

A PROCESS FOR MAKING DECORTICA HARD SEEDS.

Applicant : SOCIETE FRANCAISE HOECHST, OF 3, AVENUE DU GENERAL DE GAULLE 92800 PUTEAUX, FRANCE A FRENCH JOINT-STOCK COMPANY.

Inventors : MR. BERNARD VACHER.

Application No. 953/Mas/84 filed 4th December 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for making decorticated seeds from hard seeds such as carob, guar and tara seeds with thermal pretreatment of such seeds for facilitating decortication, wherein said thermal pretreatment is realized by irradiation of said seeds by means of infra-red radiations of an intensity of at least 100 KW/m^2 .

Complete specification 6 pages.

CLASS : 63-I

159716

Int. Cl. : H 02 n 11/00.

AN IMPROVED ELECTRICAL MACHINE TO REDUCE THE NOISE LEVEL AND REMOVAL OF CARBON DUST OF THE COMMUTATOR AND BRUSH ASSEMBLY.

Applicant : LENINGRADSKOE PROIZVODSTVENNOE ELEKTROMASHINOSTROITELNOE OBIEDINENIE "ELEKTROSILA" IMENI S.M. KIROVA, Leningrad, PROSPEKT, 158, MOSKOVSKY, USSR.

Inventors : 1. GARRI MIKHAILOVICH KHUTORET-SKY, 2. RAFAEL KONSTANTINOVICH SHABAEV, 3. ANATOLY VLADIMIROVICH ANDREEV, 4. KONSTANTIN IVANOVICH BUKHANEKOV.

Application No. 1082/Cal/83 filed September 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

An improved electrical machine installed on foundation for reducing noise level in the machine room and and to prevent getting of carbon dust of the commutator and brush assembly into the machine room and onto the machine assemblies comprising a sound-proofing enclosure 2 covering a machine shaft 9, a commutator and brush assembly, a fan 12 is used to cool the commutator and brush assembly 11, and an exciter, the fan being provided with a spiral guide vane device 14 whose outlet connection pipe 17 communicates with a channel 20 made in the foundation in order to discharge the cooling air into a space under the foundation.

Compl. specn. 7 pages.

Drg. 2 sheets

CLASS : 43-F

159717

Int. Cl. : G 11 b 23/46.

APPARATUS FOR APPLYING TITLES, ANIMATIONS OR TRANSLATIONS AND THE LIKE TO CINEMATIC FILMS.

Applicant & Inventor : MOSHE GUEZ, OF 96 JERUSALEM BOULEVARD, RAMAT GAN, ISRAEL.

Application No. 1100/Cal/83 filed September 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

5 Claims

An apparatus for applying titles, animations, translations and the like to cinematic films comprising in combination a suitable laser, an optical system for directing the laser beam to suitable area, a film bearing the matter to be applied and means for passing said laser beam via said film on the cinematic film.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 156-A

159718

Int. Cl. : F 04 b 47/04.

IMPROVEMENTS IN AND RELATING TO SUBMER-SIBLE HYDRAULIC BORE AND WELL PUMP.

Applicant : DONALD IAN GUY MACLEOD OF 41 PHELPS STREET, GERALDTON, STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

Inventor : DONALD IAN GUY MACLEOD.

Application No. 1105/Cal/83 filed September 9, 1983.

Convention dated 9th September, 1982 (PF 5822) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

An improved hydraulically actuated bore or well pump in which a submerged pump unit comprises a pumping piston in a barrel having a foot valve to admit liquid to the barrel and a non-return valve at the piston, and in which the said piston is connected to the piston of a slave unit having a barrel coaxial with the first said barrel, said connection being by a hollow connecting rod opening through the said pumping piston and the said slave piston and communicating through the second said barrel with a delivery line adapted to discharge liquid to the surface of the bore or well, and in which a driving unit at the bore or well surface comprises piston and barrel means adapted to actuate the said slave piston through a pressure line between the said driving unit and the said slave piston, characterised in that the said driving unit is double-acting to impart both up and down movement to the said pumping and slave pistons as the said driving unit piston means are reciprocated, further characterised by valve means in the said delivery line to control outflow from the said delivery line to allow the said delivery line to be pressurised for a return stroke.

Compl. specn. 14 pages.

Drg. 1 sheet

CLASS : 172-C₃

159719

Int. Cl. : D 01 g 7/00, 9/00.

GRATING FOR A ROTATABLE OPENING ROLLER OF A CLEANING MACHINE FOR COTTON FIBRES.

Applicant : MASCHINENFABRIK RIET-ER AG. OF SWITZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventor : URS STAHLI.

Application No. 1111/Cal/83 filed September 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A grating, comprising individual bars for a rotatable opening roller of a cleaning machine for cotton fibres, provided with a clothing, in which grating each grating bar has secured thereto a guide element formed from a sheet material and extending over the length of the bar, which guide element comprises two band portions arranged adjacent to each other and extending in the longitudinal direction of the bar, of which the first band portion forms a

flat surface which rests on the side surface of the associated bar and the second band portion forms a guide face adjacent the clothing and extending in approximately tangential direction thereto, the spacing of the guide surface from the clothing being adjustable by shifting of the guide element parallel to said side surface, characterized in that each guide element (19) has on the longitudinal side of the first band portion (24) directed away from the second band portion (25) a third band portion (28) inclined to the first band portion (24), extending in the longitudinal direction of its bar (16) and at least partially covering the back thereof.

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 145-C

159720

Int. Cl. : A 61 j 1/00.

PROCESS FOR MANUFACTURING CALENDERED PEAR MOSS BOARD HAVING ENHANCED ABSORBENCY.

Applicant : JOHNSON & JOHNSON, INC., OF 2155 BOULEVARD PIE IX MONTREAL, QUEBEC H1V 2E4, CANADA.

Inventor : KEVIN JAMES OVANS.

Application No. 1152/Cal/83 filed September 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A process for manufacturing a calendered peat moss board having enhanced absorbency comprising :

forming a board comprising peat moss, conditioning said board to have the desired water content, and calendering said conditioned board, characterized in that the board is conditioned to have a water content which ranges between the values determined by the following equation :

$$W = 0.10795P + 8.048 \pm 7.180$$

wherein W is the water content of the conditioned board in weight percent based on the weight of bone dry board and P is the weight percent of peat moss based on the weight of bone dry board.

Compl. specn. 16 pages.

Drg. 2 sheets

CLASS : 9-A & F

159721

Int. Cl. : B 01 d 9/02; B 01 j 17/06; C 22 c 21/00.

PROCESS FOR THE PRODUCTION OF COMPOSITE ALLOYS BASED ON ALUMINIUM AND BORON.

Applicant : FONDERIES MONTUPET, 4, ROUTE DE CHATOU 92000 NANTERRE, FRANCE.

Inventor : CLAUDE PLANCHAMP.

Application No. 1199/Cal/83 filed September 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for the production of a metallic matrix composite alloy having a high level of resistance to abrasion and the property of trapping neutrons, comprising the steps of :

- (a) preparing aluminium boride in the form of particles with a mean grain size of between 5 and 30 μ m encased with aluminium;

(b) introducing said encased aluminium boride into a previously refined aluminium or aluminium alloy bath protected at its surface by a deoxidizing flux, the quantity of boron in said bath being at most 30% by weight;

(c) agitating said bath throughout the period of introduction of said encased aluminium boride;

(d) controlling the introduction speed of said encased aluminium boride so as to maintain the bath above its solidification temperature;

(e) subjecting the bath to degassing in a nitrogen atmosphere or under vacuum subsequent to the introduction of said encased aluminium boride; and

(f) rapidly casting said degassed bath.

Compl. specn. 8 pages.

Drg. Nil

CLASS : 128-K

159722

Int. Cl. : A 61 b 17/00.

HARD TISSUE SURGICAL NEEDLE.

Applicant : ETHICON INC., AT SOMERVILLE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : 1. DANIEL JOSEPH SMITH.

Application No. 1218/Cal/83 filed October 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims

A surgical needle, comprising a body portion, an adjacent cutting portion which terminates near the tip of the needle and a tip portion, there being a plurality of planar surfaces forming one or more cutting edges in said cutting portion, which cutting edges converge towards the tip of the needle, characterized by that there are provided at least two additional intersecting planar surfaces at the tip portion of the needle forming one or more additional cutting edges.

Compl. specn. 16 pages.

Drg. 2 sheets

CLASS : 123

159723

Int. Cl. : C 05 c 1/00 to 13/00.

NITROGEN FERTILISER WITH A CONTENT NITRIFICATION INHIBITOR.

Applicant : SKW TROSTBERG AKTIENGESELLSCHAFT, DR. ALBERT-FRANK-STRASSE 32, D-8223 TROSTBERG, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. SVATOPLUK, SOLANSKY, 2. HORST MICHAUD, 3. HORST BEHNKE.

Application No. 1228/Cal/83 filed October 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Process for the production of a nitrogen fertilizer with a nitrification inhibitor in form of a granulate, wherein the granulate has a grain size of from 4–16 mm, wherein a mixture of from 1–30 parts by weight of dicyandi-amide and 99–70 parts by weight of a nitrogen fertilizer is granulated in the manner known per se or is molded.

Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 55-D.

159724

Int. Cl. : A 01 n 9/00.

PROCESS FOR PREPARING AN ENCAPSULATED RODENTICIDE.

Applicant : OCCIDENTAL CHEMICAL CORPORATION, NIAGARA FALLS, NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. GEORGE THEODORE MILLER.

Application No. 1249/Cal/83 filed October 11, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

A process for preparing an encapsulated rodenticide comprising of steps of :

(a) coating particles of zinc phosphide with from 2% to 10% by weight of a thermoplastic polyamide such as herein described;

(b) mixing the coated particles with a bait composition comprising grains or processed grains;

(c) adding a zinc compound to the product of step (b) and

(b) adding a binder such as herein described to the mixture of step (c) to bind the bait and coated particles.

Compl. specn. 16 pages.

Drg. Nil

CLASS : 187-E.

159725

Int. Cl. : H 04 m 11/00.

A POWER CONSUMPTION DECREASING EQUIPMENT ON SUBSCRIBER COMMUNICATION CHANNELS WITH BIDIRECTIONAL WAVELENGTH-MULTIPLEX.

Applicant : KRONE GMBH, OF GOERZALLE 311, 1000 BERLIN 37, WEST GERMANY.

Inventor : 1. DR. JENS WEBER.

Application No. 1263/Cal/83 filed October 12, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A power consumption reducing equipment for subscriber communication channels operating with bi-directional wavelength-multiplex, in which each communication channel is operated on one light wavelength comprises a parallel/series converter, an electro-optical converter, a light transmission path common for all the light wavelengths, an opto-electrical converter and a series/parallel converter in a series connection, characterised in that the communication channel is switched from a stand-by-state to an operational state upon the application of a logic signal "ON" to a device which connects a supply voltage to the parallel/series converter to cause the parallel/series converter to transmit a bit timing signal to the electro-optical converter the electro-optical converter including detector means responsive to the bit timing signal, said detector means switching the electro-optical converter to its operative state, the opto-electric converter in response to light transmitted along the light transmission path, being switched to its operative state and generating a bit timing signal which is detected by further detector means in the series/parallel converter and which switches the series/parallel converter to its operative state the communication channel returning to the stand-by state upon removal of the logic signal "ON" when the communication channel is no longer required.

Compl. specn. 12 pages.

Drg. 3 sheets

CLASS : 32 F₃(a)(c)

159726

Int. Cl. : C 07 c 31/00.

A PROCESS FOR THE PREPARATION OF DIETHYLENE GLYCOL BIS ALLYL CARBONATE.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110 007, India, AN INDIAN INSTITUTE.

Inventors : BALKAR SINGH AND JAI KRISHNA NIGAM.

Application for Patent No. 515/Del/1983 filed on 28th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An improved process for the preparation of diethylene glycol bis allyl carbonate which comprises in reacting distilled chloroformate with allyl alcohol and pyridine to obtain a monomer characterized in treating said monomer with active carbon to obtain diethylene glycol bis allyl carbonate having improved colour values.

Complete specification 7 pages.

CLASS : 189

159727

Int. Cl. : A61k—7/00.

HAZED TOOTHPASTE.

Applicant : COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, U.S.A.

Inventors : KENNETH HARVEY, STEPHEN TAMIS & ERIC BAINES.

Application for Patent No. 518/Del/1983 filed on 28th July, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A hazed toothpaste comprising an oral vehicle, a binary fluorine-providing system which provides 750–1225 ppm fluorine from sodium monofluorophosphate and 50–1000 ppm fluorine from sodium fluoride and 15–40% by weight of a synthetic precipitated siliceous polishing agent of the kind such as herein described wherein there is present 0.1–2.5% by weight of dicalcium phosphate which provides a hazed appearance to the toothpaste and stabilizes it against gasing when packaged in an unlined toothpaste tube and against colour fading when the toothpaste contains a water-soluble non-toxic dyestuff of the kind such as herein described.

Complete specification 13 pages.

CLASS : 105 & 199

159728

Int. Cl. : G 01 f—1/00.

LIQUID FLOWMETER.

Applicants : DEWPLAN (ET) LIMITED, A BRITISH COMPANY, OF WHITEFIELD ROAD, BREDBURY, STOCKPORT, CHESHIRE SK 6 2QR, ENGLAND AND GEORGE FRANCIS GILBERT CLOUGH, A BRITISH CITIZEN, OF ALLMEADOWS, WINCLE MACCLESFIELD, CHESHIRE SK11 0QJ, ENGLAND.

Inventor : GEORGE FRANCIS GILBERT CLOUGH.

Application for Patent No. 523/Del/1983 filed on 30 Jul 1983.

Convention Application No. 82 22459 filed on 04-08-1982 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A liquid flowmeter comprising an inlet for a liquid; a first compartment located adjacent a second compartment and connected thereto said compartments being mounted in a trough, said first and second compartments being pivotable on a pivoting means such that the first compartment is adapted to receive liquid from said inlet while the second compartment pours out liquid therein, the first compartment in the second position pouring out liquid therein while the second compartment is adapted to receive the liquid from said inlet, said compartments being stable in either position until the compartment receiving liquid contains liquid to a particular level; said first and second positions being defined by stop means; at least a pair of deflector plates positioned in said trough to receive the liquid being poured out of the compartments as said compartments move from one position to another and direct said liquid back to cushion the impact of the compartments on said stops, the flow rate of the liquid being calculated as a function of the number of times the said compartments tip.

Compl. specn. 13 pages.

Drg. 2 sheets

CLASS : 37 B & 167 H

159729

Int. Cl. : B 03 c—7/02.

A SORTING APPARATUS FOR SORTING PARTICULATE MATERIAL ON A PARTICLE BY PARTICLE BASIS.

Applicant : CRA EXPLORATION PTY. LIMITED, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, OF 2 O'CONNELL STREET, SYDNEY, NEW SOUTH WALES, 2000, AUSTRALIA.

Inventors : ALBERT PETER HAWKINS, ALAN BOYLE AND ALAN MATTHEW STONE.

Application for Patent No. 528/Del/1983 filed on 02 Aug., 1983.

Convention No. PF 5199 filed on 04 Aug., 1892 (Australia).

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A sorting apparatus for sorting particulate material on a particle by particle basis, said sorting apparatus comprising particle feed means capable of feeding particles to be sorted in paths which extend radially outwardly from a central zone of the apparatus and substantially vertically downwardly in an array curved about the central zone of the apparatus, said feed means comprising a rotationally fixed substantially horizontally extending distributor plate positioned so that the centre region of the distributor plate is in the central zone of the apparatus, said feed means further comprising a vibrating means adapted to vibrate the distributor plate in a horizontal plane, and means beneath the particle feed means to separate the particles into fractions according to the degree to which they possess a particular characteristic as they fall in said substantially vertically curved array of paths around the central zone.

Compl. specn. 21 pages.

Drg. 4 sheets

CLASS : 37 B and 167 C

159730

Int. Cl. : B 03 c—1/00, 3/02.

PARTICLE SORTING APPARATUS.

Applicant : CRA EXPLORATION PTY. LIMITED, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, OF 2 O'CONNELL STREET, SYDNEY, NEW SOUTH WALES, 2000, AUSTRALIA.

Inventors : ALBERT PETER HAWKINS, ALAN BOYLE AND ALAN MATTHEW STONE.

Application for Patent No. 529/Del/1983 filed on 02 Aug 1983.

Convention No. PF 5199 filed on 04 Aug., 1982 (Australia).

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

Sorting apparatus for sorting particles on a particle to particle basis by deflecting the particles in accordance with a predetermined characteristic of the particles when the particles are in a free flight trajectory path, said apparatus comprising a particle deflection means comprising :

- (a) an electrostatic corona discharge means positioned on one side of the free flight trajectory path to locally ionise the atmosphere in a first region of the free flight trajectory path through which selected particles are passing at that time thereby to charge the selected particles, said electrostatic corona discharge means comprising a guard electrode positioned on one side of the free flight trajectory path and at least one discharge needle positioned to project from the guard electrode, wherein the amount the discharge needle projects may be adjusted selectively thereby to vary the size of the region in which the atmosphere is ionized, and
- (b) an electric field generator to establish an electric field effective to deflect to charged particles.

Compl. specn. 23 pages.

Drg. 3 sheets

CLASS : 155 B & E .159731

Int. Cl. : F 41 h 3/00 & B 32 b 33/00.

PERFORATED CAMOUFLAGE COLOURED SHEET.

Applicant : DIAB-BARRACUDA AB., A SWEDISH BODY CORPORATE, OF BOX 160, S-59400 GAMLEBY, SWEDEN.

Inventor : LARS KARLSSON.

Application for Patent No. 862/Del/83 filed on 27th December, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A perforated camouflage coloured sheet in which holes (1) are made, wherein the sheet comprises a strengthening layer and, laminated thereon, a layer (1) of a plastics material having tensional stresses, said holes consisting of unconnected, curved slits (6) going through the sheet, the slits (6) forming tongues which, due to the action of the tensional stresses in said plastics material, are curved outwards from the plane of the sheet towards the side facing away from the strengthening layer on which said plastics material is applied.

Compl. specn. 7 pages.

Drg. 3 sheets

CLASS : 155 B & E

159732

Int. Cl. : F 41 h 3/00 & B 32 b 33/00.

THERMAL CAMOUFLAGE SHEET.

Applicant : DIAB-BARRACUDA AB., A SWEDISH BODY CORPORATE, OF BOX 160, S-59400 GAMLEBY, SWEDEN.

Inventor : LARS KARLSSON.

Application for Patent No. 863/Del/83 filed on 27th December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A thermal camouflage sheet comprising a covering with a strengthening layer and an outer layer of plastics, which in the visible wavelength range has different-coloured areas for visual camouflage effect, characterised in that between the strengthening layer and the outer layer there is a metal reflection layer, in that the plastics material of the outer layer has high transmissivity in the wavelength ranges 3-5 μm , and 8-14 μm , in that the outer surface of the outer layer is mat-finished for reducing its specular reflection, and in that the metal reflection layer is of mosaic structure for avoiding radar reflection.

Compl. specn. 8 pages.

Drg. 2 sheets

CLASS : 32F₂(a) & 55E.

159733

Int. Cl. : A 61 k 27/00; C07c 103/52.

A PROCESS FOR THE SYNTHESIS OF TRI PEPTIDE DERIVATIVES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : KRISHNA BEHARI MATHUR, BALARAM JIVRAJ DHOTRE, SHUBH DEV SHARMA, RAM RAGHUBIR, GYANENDRA KUMAR PATNAIK & BHOLA NATH DHAWAN.

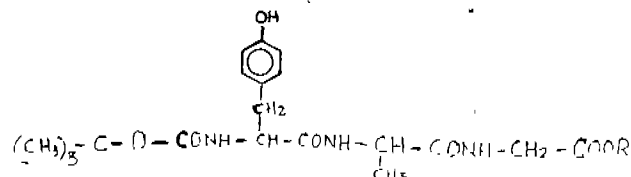
Application for Patent No. 565/Del/83 filed on 18th August, 1980.

Divisional to Patent application No. 9/Del/80 filed on 5th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

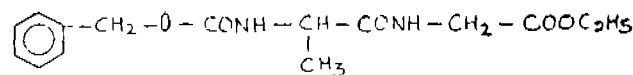
3 Claims

A process for the synthesis of tripeptide of formula II



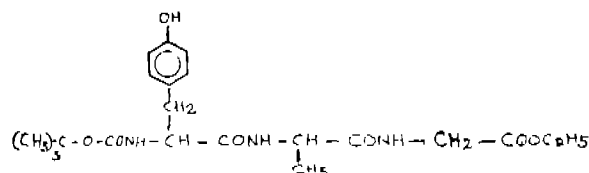
II

wherein R is a radical such as trichlorophenyl, pentachlorophenyl, succinimidyl benzotriazolyl, comprising hydrogenating by known methods a dipeptide of the general formula III



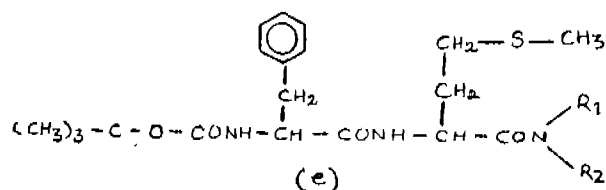
III

reacting the resultant compound with t-butyloxycarbonyl-L-tyrosine to form tripeptide-t-butyl oxy carbonyl-L-tyrosyl-D-alanyl-glycine ethylester of formula IV



IV

to obtain a compound of formula (c)

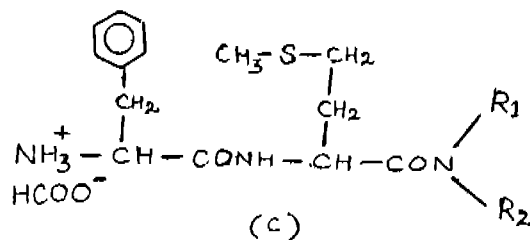


Dwg. 2 sheets

159734

reacting the compound of formula (e)

with an organic base as herein described to form corresponding compound of formula (c),



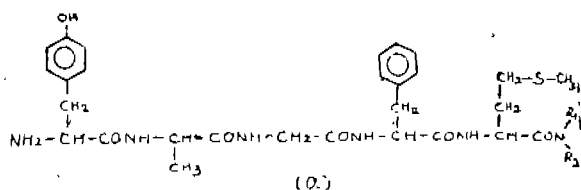
further reacting the same (c) with a compound of formula (d)

Inventors : KRISHNA BEHARI MATHUR, BALRAM JIVRAJ DHOTRE, SHUBH DEV SHARMA, RAM RAGHUBIR BHOLA NATH DHAWAN & AYNENDRA KUMAR PATNAYAK.

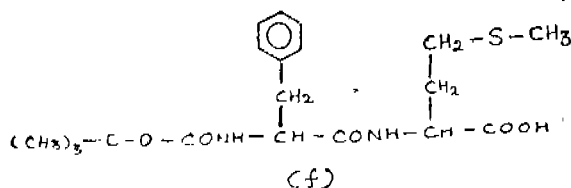
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

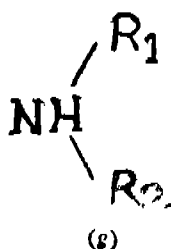
Process for the synthesis of polypeptide derivatives of formula (a)



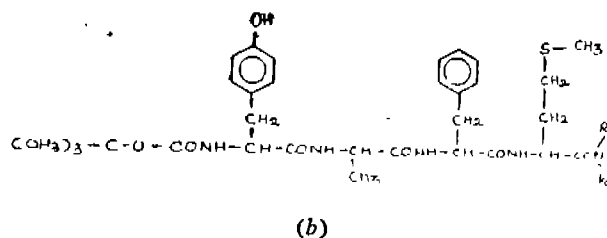
comprising reacting a compound of formula (f)



with isobutylchloroformate and an amine of formula (g)



to form a compound of formula (b)



and converting the same into an amine derivative of formula (a) by reacting with an organic base wherein R_1 is hydrogen and R_2 is an alkyl, aryl or aralkyl radical such as methyl, phenyl or benzyl respectively or R_1 and R_2 are both alkyl, aryl or aralkyl radicals like those described for R_2 or $NR_1 R_2$ constitute a part of a cyclic amine such as piperidine and ethyleneimine.

Drg. 8 sheets

CLASS : 32 F3 (c)

159735

13 Claims

Int. Cl. : CO 7C 43/10.

A PROCESS FOR THE PREPARATION OF DIETHYLENE GLYCOL BIS ALLYL-CARBONATE.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110 007, INDIA.

Inventors : BALKAR SINGH AND JAI KRISHNA NIGAM.

Application for Patent No. 517/Del/1983 filed on 28th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A process for the preparation of diethylene glycol bill allyl carbonate comprising in reacting chloroformate with allyl alcohol and pyridine to obtain a monomer consisting of diethylene glycol bis allyl carbonate characterized in treating said monomer with active carbon to obtain diethylene glycol bis allyl carbonate having improved colour values.

Complete specification 8 pages.

CLASS : 40-A₂ + 40-F

+ 188

159736

Int. Cl. : B 01 j 1/00 + C 23 c 13/00.

A CONTROLLED TEMPERATURE CHEMICAL VAPOR DEPOSITION DEVICE.

Applicant : ANICON, INC., 617 RIVER OAKS PARKWAY, SAN JOSE, CALIFORNIA 95134, U.S.A.

Inventors : 1. BRYANT ALVIN CAMPBELL, 2. NICHOLAS EDWARD MILLER.

Application No. 872/Cal/83 filed July 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A controlled temperature chemical vapor deposition device for the chemical vapor deposition of highly uniform, uncontaminated coatings of selected elements and compounds on substrates, comprising a vacuum chamber means surrounding an inner deposition reaction chamber and spaced from the walls thereof for maintaining a medium vacuum therein, the vacuum chamber consisting of a domed housing and a base cooperating therewith, radiant heating means positioned over and substantially surrounding the entire outer surface of the vacuum chamber means for providing precisely controlled temperatures therein, the inner deposition reaction chamber having gas distribution means for introducing gas into the inner chamber and removing gas therefrom.

Compl. specn. 21 pages.

Drg. 7 sheets

CLASS : 163-D

159737

Int. Cl. : F 04 b 43/00.

SQUEEZE PUMP.

Applicant : DAIICHI ENGINEERING COMPANY, LIMITED, OF 917, KODA-CHO, KAWASHIMA-CHO, HASHIMA-GUN, GIFU-KEN 483, JAPAN.

Inventor : 1. NOBORU IWATA.

Application No. 877/Cal/83 filed July 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3-97 GI/87

A squeeze pump in which a resilient tube mounted arcuately in a pump casing is pressed by a plurality of presser rolls adapted to roll about their own axes and about a common axis for successively advancing slurry in said tube, characterized in that support shafts for said rolls are projected and extended in a direction at right angles to a rotary arbor about which said rolls rotate and said tube is pressed from both sides by said rolls.

Compl. specn. 22 pages.

Drg. 3 sheets

CLASS : 163-D

159738

Int. Cl. : F 04 c 29/00.

A HOUSING BOX ROTARY PUMPS.

Applicant : KLEIN, SCHANZLIN & BECKER AKTIENGESELLSCHAFT OF POSTFACH 225, JOHANN-KLEIN-STRASSE 9, D-6710 FRANKFenthal (PRALZ), WEST GERMANY.

Inventors : 1. DR. GUNTER FELDLE, 2. KLAUS FISCHER.

Application No. 935/Cal/83 filed July 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A housing box for rotary pumps, of the type described including a cylindrical piece of tube and at least one ring shaped piece or member, the two members being joined or sealed to each other for absorbing pressure.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 187-H

159739

Int. Cl. : H 01 h 57/00.

SOLID STATE RELAY ARRANGEMENT FOR RAILROAD TRACK CIRCUITS.

Applicant: AMERICAN STANDARD INC., OF 40 WEST 40TH STREET, NEW YORK, NEW YORK 10018, UNITED STATES OF AMERICA.

Inventor : 1. HEINZ GILCHER.

Application No. 960/Cal/83 filed August 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A solid state relay arrangement for railroad track circuits comprising :

- (a) a first input means coupled for receiving a first alternating current signal from a first source having a selected signal frequency;
- (b) a second input means coupled for at times receiving a second alternating current signal from a second source, said second signal having said selected frequency and a pre-determined phase relationship with said first signal;
- (c) a varistor element;
- (d) a register means normally occupying a first position and operable to a second position; and
- (e) a register network coupling said first and second input means, said varistor element, and said register means for operating said register means to its second position to register the presence of said second signal only when both signals are present and within said predetermined phase relationship.

Compl. specn. 14 pages.

Drg. 2 sheets

CLASS : 69-H

159740

Int. Cl. : H 01 h 73/18.

ELECTRIC CIRCUIT BREAKER.

Applicant : MERLIN, OF RUE HENRI TARZE, 38050 GRENOBLE CEDEX, FRANCE.

Inventors : 1. BOUILLIEZ OLIVIER, 2. IMPERT MICHEL.

Application No. 991/Cal/83 filed August 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Electric circuit breaker with self blow-out by rotation of the arc under the effect of a magnetic field generated by the current to be cut, comprising :

- a sealed chamber filled with an insulating gas of high dielectric strength;
- a stationary contact assembly, mounted freely inside said sealed chamber;
- an annular electrode pertaining to said stationary contact assembly and forming an annular track for the rotation of the arc under the effect of a magnetic field generated by a tubular coil fitted coaxially at the rear side of said annular electrode;
- a ferromagnetic core extending coaxially inside said tubular coil and presenting a terminal face adjacent to said annular electrode;
- a channel extending coaxially through said tubular coil and said annular electrode of said stationary contact assembly between the front zone and the opposite rear zone of said stationary contact assembly;
- an arc expansion zone arranged at said front zone of the stationary contact assembly, and communicating freely with said opposite rear zone, both through and outside said assembly, so as to define a first trajectory of ionized gas, passing through said channel inside said assembly, and a second trajectory, passing outside said assembly between said stationary contact assembly and an inner wall of said chamber.

Compl. specn. 9 pages.

Drg. 2 sheets

CLASS : 176-G & 127-I

159741

Int. Cl. : E 21 c 31/00.

A SEDIMENTATION APPARATUS FOR SEPARATING SOLIDS FROM A MIXTURE OF LIQUIDS AND SOLIDS.

Applicant : ENVIROTECH CORPORATION, WITH OFFICES IN SALT LAKE CITY, UTAH, UNITED STATES OF AMERICA.

Inventor : 1. DONALD L. KING.

Application No. 1010/Cal/83 filed August 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A sedimentation apparatus for separating solids from a mixture of liquids and solids comprising a sedimentation basin having a central upright axis, a rake assembly adapted to be rotated within the basin about said axis wherein the rake drive means comprise a rotatable gear-member, a horizontal annular gear hub connected to said gear member and having vertically elongated slot means on the inner peripheral surface thereof, a vertically-extending torque plate journaled in said slot means and adapted to transmit torque from said hub to the said rake assembly and means connected to said torque plate to slidably move said torque plate vertically through said slot means to raise said rake assembly.

Compl. specn. 14 pages.

Drg. 3 sheets

CLASS : 165-C

159742

Int. Cl. : D 06 h 5/00.

SYSTEM FOR CONTROLLING THE POSITION OF A STRIP OF MATERIAL WITH RESPECT TO A LINEAR MOVABLE SEAM JOINING DEVICE.

Applicant : THE CHARLES STARK DRAPER LABORATORY, INC., OF 555 TECHNOLOGY SQUARE, CAMBRIDGE, MASSACHUSETTS 02139, U. S. A.

Inventor : 1. PHILIP N. BOWDITCH.

Application No. 1014/Cal/83 filed August 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A system for controlling the position of a strip of material with respect to a linear movable seam joining device and in response to belt control signals representative of predetermined positions of said seam joining device and seam signals representative of desired seam locations, characterized in that it comprises :

at least two sets of opposed belts and associated support structures on each side of the locus of said seam joining device, wherein the opposing surfaces of each of said belts include material surfaces which are adapted to frictionally engage an adjacent surface of said material; and

wherein one or more of said support structures are two state support structures, each including an actuator coupled to the associated belt, said actuator being responsive to applied belt control signals and adapted for selectively controlling its associated belt to be in a first state in part overlying an associated portion of the locus of said seam joining device or in a second state outside the locus of said seam joining device whereby each two state support structure is controlled to be in its first state when said seam joining device is positioned outside the portion of said locus associated with that belt, and to be in its second state when said seam joining device is positioned at least in part within said portion.

Compl. specn. 12 pages.

Drg. 3 sheets

CLASS : 162

159743

Int. Cl. : D 07 b 5/00.

CABLES HAVING STRANDS COVERED WITH INDIVIDUAL SHEATHS OF PLASTICS OR RUBBER MATERIAL.

Applicant : CABLE BELT LIMITED, OF 3 GLENFINLAS STREET, EDINBURGH EH 3 6YY, SCOTLAND.

Inventor : 1. LAN MAIN THOMSON.

Application No. 1057/Cal/83 filed August 31, 1983.

Convention dated 1st September, 1982 and 2nd June, 1983, (82 24956 & 83 15181) both are U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

36 Claims

A cable comprising a layer of strands twisted together, each strand being formed by a plurality of elements and being covered by a sheath of a plastics or rubber material, characterised in that at least some of said sheaths have a non-circular cross-section extending spirally along the associated strand before the twisting of the strands together, the sheaths of the strands of said twisted layer being such as to inter-lock together to fix the spatial relationship of said strands in the cable.

Compl. specn. 28 pages.

Drg. 3 sheets

CLASS : 145-D

159744

Int. Cl. : B 65 h 17/00.

IMPROVEMENT IN PAPER MAKING MACHINE AND PARTICULARLY TO METHOD AND MECHANISM FOR POSITIVE WEB PRESS SECTION OF THE MACHINE.

Applicant : BELOTT CORPORATION, OF P.O. BOX 350, BELOTT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventors : 1. LAURIE DAVID WICKS, 2. DENNIS CALLAHAN CRONIN, 3. JAMES LARRY CHANCE.

Application No. 1069/Cal/83 filed September 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Mechanism for positive web transfer in a press section of a papermaking machine comprising :

a press nip (N; N-1) formed between a first press member (17, 21; 42; 61; 81) and a second press member (16, 22; 41; 62; 80) defining a pressing zone therebetween through a web (w) is carried subjected to a dewatering pressure;

a porous felt (13, 20; 35; 58; 79) on one surface of the web facing said first press member (17, 20; 42; 61; 81) and receiving water pressed from the web;

characterised by a nonporous looped smooth surface belt (15; 40; 60; 86) of nonextensible material impervious to water passing through said nip N; N-1) in direct contact with the web (w) so that the web follows the belt downstream of the nip;

means guiding the belt away from the nip, and means (64 to 67 in Fig. 3; 83, 84, 85 in Fig. 4) receiving the web from the belt band separating the web therefrom.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 68

159745

Int. Cl. : G 05 f 1/68.

PHASE POWER FACTOR CONTROLLER.

Applicant : NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OF WASHINGTON, D.C. 20546, U.S.A.

Inventor : 1. FRANK JOSEPH NOLA.

Application No. 1072/Cal/83 filed September 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

In a three-phase power factor controller for a three-phase induction motor of the type comprising a plurality of electronic switching means (10, 12, 14) individually connected between the respective phase terminals of a three-phase supply line and the corresponding phase windings of the motor; phase detector means (16, 18, 20) for detecting the motor voltage and current in each phase and for producing, for each phase, an output proportional to the phase difference between the motor voltage and current; summing means (29) for summing the outputs of said phase detector means; power factor command signal generating means (50) for generating a power factor command signal; and control means, responsive to the output of said summing means and said power factor command signal, for controlling switching of said switching means, each of said phase detector means including an operational amplifier (A1) whose inputs are connected across the corresponding electronic switching means for that phase, for sensing the current phase angle for that phase by sens-

ing the voltage across said corresponding electronic switching means, the improvement comprising :

means (R5) providing positive feedback between the output and input of said operational amplifier such that switching of the output of the operational amplifier is synchronized with switching of the voltage across the electronic switching means.

(Compl. Specn. 16 pages.

Drg. 1 sheet).

Class : 37 B.

159746

Int. Class : B04b 3/00.

A NOZZLE TYPE CENTRIFUGE.

Applicant : DORR OLIVER INCORPORATED, OF 77 UNITED STATES OF AMERICA A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF DELAWARE, UNITED STATES OF AMERICA, ENGINEERS.

Inventors : CHARLED ARTHUR WILLUS, KENNETH-DAN LEWIS & JULIAN LANGER.

Application for Patent No. 435/Del/83 filed on 29th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A nozzle type centrifuge adapted for a two phase separation of a feed slurry into a nozzle discharge underflow slurry and an overflow of separated liquid, comprising :

- a rotor having a rotor bowl of double conical configuration with an upper conical portion having a top opening for discharging said overflow, a wide bottom opening and a peripheral intermediate portion having discharge nozzles for said underflow,
- a first pumping chamber at said wide bottom of said rotor bowl, said chamber having a set of pumping vanes for delivering a feed slurry to vertical feed pipes to rotatably separating discs in said rotor bowl,
- a bottom central slurry feed pipe at the base of said centrifuge, said feed pipe having discharge end in said first pumping chamber,
- a second pumping chamber vertically spaced beneath said first pumping chamber and having pumping vanes for impelling underflow slurry returned from said peripheral portion of said rotor bowl to said discs,
- a central passageway concentric with said rotor between said chamber, and
- sealing means provided in said passageway between said chambers to prevent the feed slurry from said first pumping chamber from entering said second pumping chamber.

(Complete specification 10 pages

Drawing 3 sheets).

Class : 76 C&E.

159747

Int. Class : E 05c-3/22.

"A SLIDING DOOR OR WINDOW".

Applicant : ARTHUR SHAW MANUFACTURING LIMITED, A BRITISH COMPANY, OF P. O. BOX NO. 21, WILLENHALL, WEST MIDLANDS, ENGLAND WV13 2AS.

Inventor : JACK ERNEST DOUGLAS.

Application for Patent No. 468/DEL/1983 filed on 8th July, 1983.

Convention application No. 8221460 dated 24th July, 1982 (U.K.) ;

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A sliding door or window comprising two frame members mounted for relative sliding movement and a fastener for said door or window, said fastener comprising at least one bolt assembly mounted on one of said frame members and a receiver assembly mounted on the other frame member, the bolt assembly comprising a bolt having a head and spring means biasing the bolt towards the receiver assembly, the receiver assembly comprising of a guide rail and a retainer rail, said rails being mounted on said other frame member in an adjacent overlying relationship with each other, said guide rail and said retainer rail having aligned openings in which the bolt head is receivable and, the fastener further including a handle mounted on said other frame member and coupled to the retainer rail for sliding the retainer rail relative to the guide rail to engage and hold the bolt head in the openings.

(Complete specification 13 pages Drawing 3 sheets).

Class : 188

159748

Int. Class : C23c 7/00

"A PROCESS OF COATING AN ALUMINIUM SUBSTRATE WITH SILVER".

Application : BHARAT HEAVY ELECTRICALS LIMITED, OF 18-20, KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA, AN INDIAN COMPANY.

Inventors : MOHAMMAD GHOUSE PUTHEN MADOM RAMA IYER KRISHNAMOORTHY AND BALBIR SINGH MAAN.

Application for Patent No. 516/DEL/1983 filed on 28th July, 83.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A process of coating an aluminium substrate with silver comprising in the steps of heating a cleaned surface of said substrate to a temperature of 80°C to 100°C and, thereafter depositing by the step of wire spraying a coating of silver on the heated surface.

(Complete specification 8 pages)

CLASS : 47 C & 84 C₁

159749

Int. Cl. : F27 d 3/00 & F23 j 1/00.

"APPARATUS FOR THE TREATMENT AND DISCHARGE OF RESIDUES FORMED BY GASIFICATION OF ASH CONTAINING FUELS".

Applicant : RUHRCHEMIE AKTIENGESELLSCHAFT, OF BRUCHSTRASSE 219, OBERHAUSEN 13, FEDERAL REPUBLIC OF GERMANY, A COMPANY INCORPORATED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : JOSEF HIBBEL, ULRICH GERHARDUS, VOLKMAR SCHMIDT, BERNARD LIEDER, HEINRICH SCHEVE & ERWIN ZERRES.

Application for patent no. 535/Del/83 filed on 3rd August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

Apparatus for the treatment and discharge of residues framed by gasification of ash containing fuels comprising :

a gasification chamber for gasification of ash containing fuel with oxygen or oxygen containing gasification agent at pressure of 10-200 bar;

a water bath connected to the gasification chamber and into which residue from the gasification chamber can pass;

a separating chamber;

a closable connection between the water bath and the separating chamber and through which when open water and granulated residue ("slag") can pass from the water bath to the separating chamber;

means for returning water from the separating chamber to the water bath;

a lock vessel connected to the separating chamber for receiving slag from the separating chamber;

means for reducing the pressure in the separating chamber and the lock vessel;

and means for effecting cooling of water in the separating chamber or replacing heated water in the separating chamber with cold water.

Compl. specn. 15 pages.

Drugs. 2 sheets

CLASS : 35 b

159750

Int. Cl. : CO 4b-7/02 & 11/00.

A PROCESS FOR THE PREPARATION OF FAST SETTING AND HIGH EARLY STRENGTH CEMENT COMPOSITE.

Applicant : CEMENT RESEARCH INSTITUTE OF INDIA, M-10, SOUTH EXTENSION, PART II, NEW DELHI-110049, INDIA.

Inventors : RAO VARANASI VENKATA SUBBA, SHOBHAY LAXMI, PARITOSH KUMAR MANDAL & RANJIT GHOSH.

Application for Patent No. 549/DEL/1983 filed on 10th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the preparation of a fast setting high early strength cement composite which comprises in preparing a mix consisting of portland cement or portland cement clinker, high alumina cement anhydrous calcium sulphate and a known accelerator grinding the mix or each of the aforesaid constituents individually to a fineness of not less 4500 cm²/g Blaines, adding a fine aggregate such as sand thereto and such that the cement composite has a calcium silicate hydrate matrix with 45 to 60% by weight of C₃S, 20 to 25% by weight of C₂S, the remainder containing aluminates and ferrite phases, said high alumina cement having Al₂O₃ of 75% to 80%.

Compl. specn. 8 pages.

CLASS : 32 F₂(a)

159751

Int. Cl. : C 07 c-87/52.

PROCESS FOR THE CORPORATION OF ANILINE AND DIPHENYLAMINE.

Applicant : THE HALCON SD GROUP, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, HAVING ITS OFFICE AND PRINCIPAL PLACE OF BUSINESS AT 2 PARK AVENUE NEW YORK, NEWYORK-10016, UNITED STATES OF AMERICA.

Inventors : NAND KUMAR KOCHAR AND BRIAN JOHN OZERO.

Application for Patent No. 573/DEL/1983 filed on 23 August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A process for the co-production of aniline and diphenylamine from phenol and ammonia comprising the steps of

(a) forming an aniline reaction mixture containing ammonia and phenol;

(b) at least partially reacting said aniline reaction mixture in the presence of a catalyst of the kind such as herein described and under aniline forming conditions and thereby forming an aniline reaction effluent mixture containing aniline, water and unreacted ammonia and phenol;

(c) separating in any known manner at least a portion of said unreacted phenol and aniline formed in step (b) and at least partially reacting them under diphenylamine and unreacted aniline and phenol;

(d) recovering in any known manner product aniline from the said aniline reaction effluent mixture; and

(e) recovering in any known manner product diphenylamine from the mixture formed in step (c).

Compl. specn. 18 pages.

Drg. 1 sheet

CLASS : 4A.

159752

Int. Cl. : F 01f 3/00.

A SAFETY DEVICE FOR MANEUVERING AN AIRCRAFT BETWEEN A LANDING AND TAKE-OFF AREA AND A GARAGE AREA ON THE DECK OF A SHIP.

Applicant : SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, A FRENCH BODY CORPORATE ORGANISED AND EXISTING UNDER THE LAWS OF FRANCE, OF 37 BOULEVARD DE MONTMORENCY, PARIS, FRANCE.

Inventor : LOUIS ARTHUR BERNARD.

Application for Patent No. 611/Dcl/83 filed on 6th September, 83.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A safety device for maneuvering an aircraft having a wheeled undercarriage with at least one swivelling wheel, such as a helicopter, between a landing and take-off area defined on a flight deck of a ship and at least one contiguous garage area on the deck of said ship said flight deck being equipped with one landing aid device comprising releasable linking means selected from the group consisting of landing cables, probes and mooring gears for releasably linking said flight deck to a lower part of the fuselage of said aircraft and for maintaining said aircraft in place on said landing and take-off area prior to a take-off or after a landing of said aircraft without any risk of rolling, skidding and upsetting of said aircraft under the influence of the movements of said deck and of the wind, wherein said safety system includes in combination;

at least one rectilinear guide rail installed on said flight deck and extending from said landing and take-off area to said at least one garage area for exerting, with respect to said flight deck, a longitudinal and lateral guiding action and a vertical retaining action on main carriage means provided for guiding and maintaining said aircraft on said flight deck;

said main carriage means being engaged in said at least one rail for moving along it being provided with connec-

ting means for being connected to pre-determined points beneath said aircraft fuselage forming a lower point of fixation,

said connecting means developing and permanently exerting against said deck and providing for the stability of said aircraft against skidding and upsetting during maneuvering of said aircraft from one to the other of said two areas between which said one guide rail extends, and after said linking means has been released;

a towing mechanism comprising, said at least one rail, two winches disposed in the axis of the corresponding rail on either side of the path of said aircraft between the corresponding two said areas, and two cables each wound on one of said two winches so that one of said cables is for being hooked to a hook or an eyelet projecting from the front of said aircraft and forming a front point of fixation on said aircraft to displace the latter from said landing and take-off area to the corresponding garage area when the corresponding which operates as a towing winch, whilst the second cable is for being hooked to a rear point of fixation on said aircraft to displace the latter in opposite direction when the corresponding winch operates as a towing winch, and a guiding device for guiding said at least one swivelling wheel of said aircraft undercarriage, said guiding device comprising at least one guide bar having two ends one of which is not being connected to said at least one swivelling wheel whilst the other end is for being connected to auxiliary carriage means engaged, in said rail in which said main carriage means is engaged so that when one of said two winches operates as a towing winch, said main and auxiliary carriage means, said guiding bar and said rail produce combined effects which automatically and progressively recenter and align said aircraft on said rail, at the beginning of the displacement of said aircraft from one to the other of said corresponding two areas, and after releasing of said linking means of said landing aid device when said aircraft moves towards the corresponding garage area.

Compl. specn. 29 pages.

Drg. 9 sheets.

CLASS : 13 C.

159753

Int. Cl. : B 65 d 5/00.

"SEMIFINISHED SHEET OF PAPER BOARD OR LIKE FOR THE MANUFACTURE OF PARALLELEPIPEDAL BOXES."

Applicant : IN. GR. ED-INDUSTRIE GRAFICHE EDITORIALI S.P.A. AND ITALIAN BODY CORPORATION OF VIA DELL'INDUSTRIA, NO. 23—APRILIA (LT). ITALY.

Inventor : MARIO GHINI

Application for Patent No. 673/Dcl/83 filed on 28th September, 1983

5 Claims

A semifinished sheet of a paper board or like for manufacturing parallelepiped shaped boxes for solid and fluid substances, provided with two longitudinal folding lines and four transversal folding lines, which lines subdivide the sheet into four side wall areas, one marginal sealing area, four top wall areas and four bottom wall areas, characterised in that the first area of the top wall formed by one of said longitudinal folding lines, first and second transversal folding lines and a longitudinal sheet edge has an oblique folding line extending from the crossing point of the second transversal folding line and said longitudinal folding line to the longitudinal sheet edge, the second area of the top wall adjacent to said first area has a diagonal folding line to the longitudinal sheet edge, the second area being a point of the third folding line and the longitudinal sheet edge and forming with said oblique folding line, a right angle, the third area of the top wall has two cut lines extending from the sheet edge parallel and symmetrically to the third and fourth transverse folding lines and

two oblique folding lines extending from the crossing point of said third and fourth folding lines and said longitudinal folding line to the crossing point with said cut lines, respectively, the fourth area of the top wall has a diagonal folding line extending from the crossing point of said longitudinal folding line and the transversal sheet edge of the crossing point of the longitudinal sheet edge and said fourth transversal folding line, the first area of the bottom wall having two oblique folding lines and two cutting lines similar to those of the third area of the top wall and the second and fourth areas of the bottom wall having diagonal folding lines similar to those of the second and fourth areas of the top wall, the third area of the bottom wall having no folding line.

Compl. Specn. 12 pages.

Drgs. 6 sheets.

CLASS : 116 C.

Int. Cl. : B66 3/00.

"AN OVERHEAD MONORAIL HOIST".

Applicant : VIDYUT ENGINEERING & TECHNOLOGIES PVT. LTD., 17, Industrial Area, Palam Road, Gurgaon, India, an Indian Company.

Inventor : KUMAR RAJENDRA.

Application for Patent No. 727/Del/83 filed on 31st October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

An overhead monorail hoist comprising a rotatable drum with a housing therefor suspended from a pair of spaced wheels for a traverse on a monorail, a motor for driving one of said wheels said motor being mounted on a platform fixed to a bracket of one of said wheels, a drum motor and a gear box for driving the drum characterized in that the drum motor is mounted on the drum housing of said drum, the output shaft of said drum motor and the drive shaft of said drum being disposed in different horizontal planes, the vertical axis of the output shaft of the motor and that of drum being in correspondence to each other or at an angle not greater than 15° away from that of the shaft of the drum, the output shaft of the drum motor being connected by means of the gear box to the said drum.

Compl. specn. 8 pages.

Drg. 1 sheet.

CLASS : 45G₃ & 195A

159755

Int. Cl. E03d 11/00 & F16k 31/18.

"A FLOAT VALVE".

Applicant : ROBERTS & ASSOCIATES WATER AND WASTE TREATMENT LIMITED, A BRITISH COMPANY, OF LONDON HOUSE, 271/273, KING STREET, HAMMERSMITH, LONDON W6 9LZ, (FORMERLY OF 9, ARGYLE STREET, LONDON W1V 2AT) ENGLAND.

Inventor : CHARLES GLYN ROBERTS.

Application for Patent No. 752/Del/83 filed on 10th November, 1983. Convention date on 30th November, 1982/8234090/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A float valve for a cistern or tank, comprising a valve housing defining a closed chamber, having an inlet port adapted to be connected permanently to an inlet pipe to the cistern or tank, an outlet port from the chamber having a conical valve seat surrounding the port and having a conc

axis, a plastics material valve member passing through the outlet port and having a conical valve head located within the chamber, a pivotably mounted lever pivotable about a horizontal axis, said lever having a float rigidly fixed there to at a location laterally spaced from said horizontal axis, so as to be freely movable in the cistern or tank, and means connecting the lever directly and rigidly to valve-member and passing freely through said outlet port, to raise the head from the seat when water or other liquid in the cistern or tank falls below a certain level to allow liquid to flow from the chamber via the outlet port, the valve head pivoting as an integral unit with the lever, whereby the valve head moves along a circular path passing through the outlet port from a closed position to an open position, the conical valve head sealingly engaging in the conical valve seat at said closed position of the valve, the float being a hollow float which is partly filled with water to render it relatively heavy, and being mounted to extend below the lever, the pressure of the water in the chamber acting on that portion of the valve within said chamber, being sufficient to maintain the valve in the closed position continuously until the pivoting moment of the weight of said partly filled float is sufficient to overcome the pivoting moment of the water pressure in said closed chamber acting on said valve head.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 35B.

159756

Int. Cl. C04b 13/00, 17/00 & 19/00.

"A PROCESS FOR THE PREPARATION OF A CONCRETE MIX".

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventor : DATTA PRASAD ACHYUT DABOLKAR.

Application for Patent No. 232/Del/82 filed on 19th March, 1982 & Post-dated to 7th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A process for the preparation of a concrete mix comprising mixing portland or pozzolana cement, known aggregates, water and an additive consisting of a sodium salt of a condensation product of naphthalene sulphonic acid and formaldehyde characterized in that said naphthalene sulphonic acid has a content of only upto 85% the content of water added to said mix being lowered upto 30%.

Compl. Specn. 12 pages.

CLASS : 32 F₈ (b & c).

159757

Int. Cl. C 07C 1/00 to 7/00, 15/00 and 37/22.

"A PROCESS FOR RECOVERY OF A CUMENE/ALPHA-METHYLSTYRENE FRACTION FROM A MIXTURE THEREOF WITH PHENOL AND WATER".

Applicant : TOP INC., A CORPORATION ORGANIZED IN THE STATE OF DELAWARE WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, UNITED STATES OF AMERICA.

Inventor : PETER RAYMOND PUJADO.

Application for Patent No. 419/Del/82 filed on 2nd June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the recovery of a fraction comprising a secondary alkylbenzene and the corresponding secondary

monoalkenylbenzene from a mixture thereof with a phenol and water which comprising of the steps of :

- (a) introducing said mixture into a fraction column at an intermediate level, said column being operated at conditions to separate an overhead fraction comprising said secondary alkylbenzene and said secondary monoalkenylbenzene, and a bottoms fraction comprising said phenol;
- (b) recovering one portion of said overhead fraction, and returning another portion thereof as reflux to said column;
- (c) withdrawing a vapor stream from a level in said column above the aforementioned intermediate level, said vapor stream comprising at least a portion of said secondary alkylbenzene and said secondary alkenylbenzene and an azeotropic mixture of said phenol and water;
- (d) condensing said vapor stream and forming an organic phase and an aqueous phase; and
- (e) discharging said aqueous phase and recycling said organic phase to said column at a level above that at which said vapor stream is withdrawn and below that at which said secondary alkylbenzene / secondary alkenylbenzene fraction is returned to said column as reflux, said organic phase being recycled to said column at conditions to maintain the vapor phase conditions therein.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 27 I & 149 D.

159758

Int. Cl. : E02d 5/00.

"IMPROVEMENT IN OR RELATING TO IMPROVED ASSEMBLIES OF GRANULAR PILES FOR THE REINFORCEMENT OF WEAK SOILS AND THE PROVISION OF FIRM SETTLEMENT-FREE FOUNDATIONS AND PROCESS FOR FORMING SUCH ASSEMBLIES".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH OF RAJ MARG, NEW DELHI-1, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : BHAGWAN GOVIND RAO, RAJENDRA KUMAR BHANDARI & ASHOK KUMAR SHARMA.

Application for Patent No. 532/Del/82 filed on 13th July, 1982. Ante-dated to 18th Jan., 1979. Divided out of Indian Patent No. 150816 [29/Del/79].

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office ranch, New Delhi-110 005.

24 Claims

An improved assembly of granular piles for the reinforcement of weak soils and the provision of firm settlement-free foundations which comprises a plurality of columns each constituting a pile and each composed of a plurality of stone aggregates compacted within a pre-formed hole in the ground, the tops of said piles being provided with a common footing which interconnects said piles, said interconnected piles being provided with a common external skirt of rigid material such as herein described whereby the load-carrying capacity of the soil within which the assembly is adapted to be located is substantially increased.

A process for the formation of an improved assembly of granular piles for the reinforcement of the weak soils and the provision of firm settlement-free foundations which comprises compacting granular material such as stone aggregates into a plurality of pre-drilled holes in the ground to form a plurality of piles, said piles being so located that the distance between the longitudinal axes of any two adjacent piles is equal to or less than five times the diameter

of a pile, interconnecting the tops of said piles by means of a common footing and providing a common external skirt of rigid material such as herein described around said assembly of interconnected piles to a depth of from half to twice the width of said assembly whereby the load-carrying capacity of the soil within which the skirted assembly is located is substantially increased.

Compl. Specn. 20 pages.

Drg. 1 sheet.

CLASS : 158 C₂.

159759

Int. Cl. B 61 g, 1/18 & 3/06.

"RAILWAY CAR COUPLER".

Applicant : AMSTED INDUSTRIES INCORPORATED, A CORPORATION OF THE STATE OF DELAWARE, HAVING A PLACE OF BUSINESS AT 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventor : GEORGE EDWARD ADAMS, EDWIN CLARENCE BAILEY, RICHARD FRANK KILMOWICZ & GEOFFREY WILTON COPE.

Application for Patent No. 761/Del/82 filed on 19th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A railway car coupler comprising :

a shank having a butt end portion at one end and a head end portion at the opposite end and including an elongated chamber extending axially from said head end portion toward said butt end portion;

a head connected to said head end portion of said shank;

a knuckle pivotally connected to said head and having closed and open positions with respect to said head;

a lock disposed within the shank chamber and axially movable therewithin between a knuckle engaged position for maintaining said knuckle in said closed position and a knuckle disengaged position for enabling said knuckle to be pivoted to said open position;

thrower means pivotally connected to said lock and having an arm position to one side of said thrower means pivot for engaging said knuckle to relate the knuckle to its open position; and

axially movable actuating means disposed within said chamber and connected to said thrower means at the opposite side of said thrower means pivot from said arm with movement of said actuating means within the chamber toward said butt end of said shank initially moving said lock from said knuckle engaged position axially toward said knuckle disengaged position, with continued movement of said actuating means in the same axial direction pivoting said thrower means and consequentially said knuckle to its open position after the lock has obtained its knuckle disengaged position.

Compl. Specn. 19 pages.

Drg. 4 sheets.

CLASS 69 A, O. D.

159760

Int. Cl. H 01 h 3/28, 5/04.

"A CONTRACTOR HAVING SELF-PROTECTION MEANS AGAINST THE EFFECT OF THE FORCES OF REPULSION BETWEEN THE CONTACTS".

Applicant : LA TELMECANIQUE ELECTRIQUE, A FRENCH COMPANY OF 33 BIS, AVENUE DU MARC-CHAL-JOFFRE, 92000 NANTERRE.

Inventor : ELIE BELBEL, MICHEL LAURAIRE, CHRISTAIN BLANCHARD, LOUIS FECHANT.

Application for Patent No. 871/Del/82 filed on 24th November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A contactor comprising a control electromagnet having a movable armature, a contact assembly comprising a movable conductive bridging contact carrier supporting at least one movable contact and at least a conductive stationary contact carrier supporting at least one fixed contact, an insulating contact holder for connecting said armature of the electromagnet to the movable conductive bridging contact carrier, a resilient member adapted to cooperate with said movable conductive bridging contact carrier in a direction which establishes a certain contact pressure, and means for concentrating locally the flux created by the passage of the current in the neighbourhood of said movable conductive bridging contact carrier, for exerting thereon an attraction force tending to induce the contacts to close themselves, said means comprising at least a soft magnetic member rigidly coupled to said contact holder connected the armature of the electromagnet so that when an overload current appears reaching the intensity required for a traditional contact holder, said soft magnetic member exerts a force of attraction on a central portion of said movable conductive bridging contact carrier and on a soft magnetic element bearing directly on said movable conductive bridging contact carrier and subjected to the action of said resilient contact member, said force of attraction being sufficient to counter the effect of repulsion forces which are exerted between the fixed and movable contacts.

Compl. Specn. 21 pages.

Drgs. 3 sheets.

CLASS : 32 F and 152 E

159761

Int. Cl. : C 07c 153/07.

AN ANTIOXIDANT COMPOSITION AND A PROCESS FOR PREPARING THE SAME.

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, HAVING OUR PRINCIPAL PLACE OF BUSINESS AND A POST OFFICE ADDRESS AT 1144 EAST MARKET STREET, AKRON, OHIO, 44316, UNITED STATES OF AMERICA.

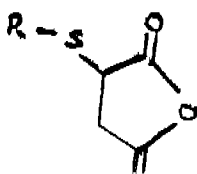
Inventor : KIRK WOOD STORER COTTMAN.

Application for Patent No. 940/Del/82 filed on 28th December, 1982.

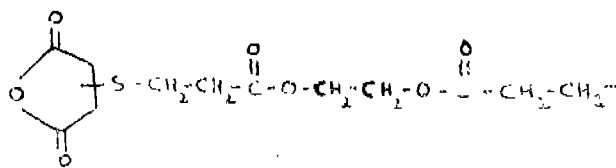
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

an antioxidant composition for stabilizing an organic material such as herein described, which comprises a compound of general formula I



wherein R is selected from the group comprising alkyl of 1 to 20 carbon atoms, aralkyl of 7 to 10 carbon atoms, phenyl and the radical of formula VIII



and at least one phenolic antioxidant.

Compl. specn. 31 pages.

Drg. 3 sheets

CLASS : 9 C & F

159762

Int. Cl. : C21b 15/00.

PROCESS FOR THE PRODUCTION AND MELTING OF FERROCHROMIUM.

Applicant : FERROHOME LIMITED, A BRITISH COMPANY OF HASSELL CHAMBERS, 2 HASSELL STREET, NEWCASTLE UNDER LYME, STAFFORDSHIRE, ST5 1QB, UNITED KINGDOM.

Inventor : THOMAS ROBERT CURR AND NICHOLAS ADRIAN BARCZA.

Application for Patent No. 947/Del/1982 filed on 31st December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

14 Claims

A process for the production and optionally melting of ferrochromium, which comprises feeding to a reaction zone a feed comprising at least some unreduced or partly reduced oxides of chromium and iron a carbonaceous reductant and one or more fluxes to the reaction zone which is heated by means of the transferred arc thermal plasma to form a molten bath comprising both liquid slag and molten ferrochromium metal, said feed materials being fed to said reaction zone at a rate which is controlled to maintain the liquid condition of the slag and metal and wherein the composition of the feed is chosen to provide a slag liquidus temperature in said bath which is at least not appreciably higher than the metal liquidus temperature in said bath, said heating being carried out in the substantial absence of air or oxygen from the reaction zone.

Complete specification 26 pages.

CLASS : 130 E & F

159763

Int. Cl. : C 22 b 25/00, 25/02.

A METHOD FOR THE CONTINUOUS SEPARATION OF TIN FROM LEAD.

Applicant : BNF METALS TECHNOLOGY CENTRE, A BRITISH COMPANY, OF GROVE LABORATORIES, DENCHWORTH ROAD, WANTAGE, OXFORDSHIRE, ENGLAND.

Inventor : JOHN EDWIN BOWERS.

Application for Patent No. 441/Del/83 filed on 1st July, 1983.

Convention date on 16-7-1982/82/20733(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A method for the continuous separation of tin from lead, which method comprises maintaining a pool of molten lead in a reaction vessel at a temperature of from 510°C to

570°C, continuously introducing molten lead containing tin as an impurity into the pool, injecting chlorine and oxygen into the molten lead in an amount to react with the tin present in the lead to form a tin-containing dross, the residence time of the molten lead in the reaction vessel being from 5 to 60 minutes, and separating the lead from the dross.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 39 C

159764

Int. Cl. : CO7c 85/00.

"PROCESS FOR THE PRODUCTION OF AMMONIA SYNTHESIS GAS".

Applicant : THE M. W. KELLOGG COMPANY, of Three Greenway Plaza, East, Houston, Texas 77046, United States of America, an American Company.

Inventors : JOHN PHILIP SHIRES, JOHN ROBERT CASSATA, BERNARD GEORGE MANDELIK, AND CHRISTIAAN PIETER VAN DIJK.

Application for Patent No. 538/DEL/1983 filed on 5th August 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the production of ammonia synthesis gas comprising :

- introducing normally gaseous hydrocarbon fresh feed and steam to an endothermic, catalytic conversion zone operated under steam reforming conditions to produce primary reformed gas containing hydrogen, carbon oxides, methane, and steam;
- compressing air by centrifugal means driven by a gas turbine and heating the compressed air to a temperature in the range of from 700°C to 900°C by indirect heat exchange with exhaust gas from the gas turbine;
- introducing the primary reformed gas and the heated compressed air from step b) to an adiabatic, catalytic, conversion zone operated under autothermal reforming conditions to produce raw, hot ammonia synthesis gas;
- passing raw, hot, ammonia synthesis gas to the endothermic catalytic conversion zone in indirect heat exchange with the normally gaseous hydrocarbon and steam therein to provide the entire heat of conversion in the endothermic catalytic conversion zone; and
- recovering raw ammonia synthesis gas from the endothermic catalytic conversion zone.

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 128 F.

159765

Int. Cl. : A61m 5/00, 5/18 & 5/32.

"SYRINGE".

Applicant : AVVARI RANGASWAMY, an Indian citizen resident of Stevens Hospital, Welch, West Virginia 24801, U. S. A.

Inventor : AVVARI RANGASWAMY.

Application for patent no. 558/Del/83 filed on 16th August, '83.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A syringe for injecting a first pharmaceutical and a second pharmaceutical or withdrawing fluids from the patient comprising—97 GI/87

prising a porous needle and a means for releasing said first pharmaceutical into said porous needle disposed in the barrel of the syringe as said porous needle being inserted into the patient, and said porous needle being fixed to a distal end of the syringe and in adjacent proximity with a continuous walled cannula or needle disposed at the distal end of the syringe said cannula being in communication with the barrel of the syringe through which said second pharmaceutical can be passed or said fluids can be withdrawn from the patient; whereby said pharmaceutical is infused substantially uniformly into the patient along the length of the inserted porous needle and therefore into the region through which said continuous walled cannula or needle is passed.

Compl. Specn. 9 pages

Drg. 2 sheets.

CLASS : 128 K & 156 E.

159766

Int. Cl. : A61m-1/00.

"MEDICAL SUCTION PUMP".

Applicant : Anand Medicaids Private Limited 4, DLF Industrial Area, New Delhi-110015, an Indian Company, incorporated under the Indian Companies Act, 1956.

Inventor : VIDYA SAGAR ANAND.

Application for Patent No. 728/Del/1983 filed on 31st October, '83.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A medical suction pump which consists of a closed chamber having two outlets 'A' 'B', an electric heating element, adapted to be connected to electric supply mains, is provided inside the chamber, means to supply and cut off electric current alternatively to the electric heating element for a predetermined period of time, the outlet 'A' of the closed chamber is connected to the atmosphere and is provided with a non-return valve opening upwards, while the outlet 'B' is provided with a non-return valve opening downwards and is connected by means of a tubing to a bottle and another tubing from the bottle dips in the body fluids to be sucked out.

Compl. Specn. 6 pages

Drg. 1 sheet.

CLASS : 127 I.

159767

Int. Cl. : F 03 g 7/00.

"A MACHINE FOR GENERATING MOTIVE POWER".

Applicants & Inventors : Mr. Anthony Alexander Gómez & Mrs. Lily Gómez, both Indian Nationals, and of 6 St. Peterkoil Sannathi Street, Tuticorin—628 001, India.

Application No. 66/Mas/83 filed on March 28, 1983.

Complete Specification left on 21st June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

23 Claims

A machine for generating motive power which comprises a water tank filled with fluid accommodating a structure having an upper mainshaft and bottom shaft, the upper shaft having a pair of upper cog wheels, the bottom shaft having a pair of lower cog wheels, said upper and lower cog wheels being connected by an endless belt, having a plurality of twin chambered bucket, the said buckets having attached thereto a collapsible air chamber compressing the air contained in the air chamber which is made to enter a grille casing during its passage through the tapered narrow portion of the said grille casing thereby causing the compressed air to move into correspondingly opposite twin chambered bucket which is being released at the maximum width exit point of grille casing causing the water to dislodge from the said opposite bucket thereby creating buoyancy and setting a chain of motion.

Provisional Specn. 5 pages
Compl. Specn. 17 pages

No Drg. Sheet.
Drg. 3 sheets.

CLASS : 106, 156 E.

159768

Int. Cl. : F 04 f 5/00.

"AN IMPROVED SOIL INJECTOR".

Applicant & Inventor : NAMBAMUDI SINNIHAH VELLASITHAN SINNIHAH, OF VELANIPATTY, KATTAMPUR POST, RAMNAD DISTRICT, TAMIL NADU, INDIA.

Application No. 176/MAS/83 filed August 19, 1983.

Complete Specification left on 14th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

An improved soil injector comprising a cylinder having a movable piston sealingly engaging with its inner surface, said piston being adjustable from externally to compensate any wear in use and the said cylinder being provided with an ingress port and an egress port, both of which communicate with a common passage which, in turn, is in communication with a liquid inlet as well as a discharge outlet, said discharge outlet leading to a downwardly extending hollow needle provided with a plurality of peripheral outlet holes towards the proximity of its lower pointed end, said ingress port of the cylinder being equipped with a one way valve, and the common passage being provided with a slidable valve which slides or moves inwardly to close said discharge outlet during liquid inflow into the common passage through said liquid inlet, and which valve or moves back to close the liquid inlet during the discharge stroke of the piston so as to allow the liquid to be discharged through said outlet holes via said egress port and discharge outlet.

Provisional Specn. 8 pages

Drgs. 2 sheets.

Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 153.

159769

Int. Cl. : B 24 d 3/00, 11/00.

"A METHOD OF MAKING AN IMPROVED ABRASIVE COATED PRODUCT HAVING A TEXTILE BACKING SUCH AS SHEETS, ROLLS AND BELTS".

Applicant : CARBORUNDUM UNIVERSAL LTD., AN INDIAN COMPANY OF 28, RAJAJAI SALAI, MADRAS-600 001, TAMIL NADU, INDIA.

Inventor : CHATHAPURAM RAMAIYER RAMACHANDRAN.

Application No. 181/MAS/83 filed September 2, 1983.

Post dated to 2nd October, 1983.

Complete specification left on 31st December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A method of making an improved abrasive coated product having textile backing such as sheets, rolls, belts comprising the steps of :—

(a) pretreating a backing material such as herein described to block its porosity with known fillers and binders to obtain a pretreated backing material having a pH ranging from 6 to 7,

(b) drying the pretreated backing material and thereafter treatment it with water-resistant compounds such as herein described at a pH below 7 and at a temperature ranging from 5° to 40°C,

(c) drying the resultant product of step (b) at a temperature ranging from 110° to 170°C and thereafter subjecting it to conventional abrasive coating, and

(d) drying the coated product followed by curing at a temperature not more than 350°F.

Provisional Specn. 6 pages.

No. Drg. sheet.

Compl. Specn. 12 pages.

No. Drg. sheet.

CLASS : 50E2 & F.

159770

Int. Cl. : B 23 q 11/00.

"A COOLING UNIT FOR ELECTRONIC CONTROL PANELS".

Applicant & Inventor : RAVI GHUWALEWALA, "GANGA", 240 MOWBRAYS ROAD, MADRAS-600 018, TAMIL NADU, INDIA.

Application No. 195/MAS/83 filed September 12, 1983.

Complete Specification left on 27th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A cooling unit for electronic control panels comprising a thermally insulated housing having an inlet at the top for entry of hot air from the panel into the housing and an outlet at the bottom for exit of cold air from the housing into the panel; an air cooled condenser with circulators the condenser being located at the top of the housing against the inlet; a compressor located below the condenser; and an evaporator with fan, the evaporator being located below the compressor whereby the air within the housing, over the compressor circulating over the cooling coil, is blown by the fan through the outlet into the panel, where it get heated and rises to the top of the housing to enter the housing at the inlet, whence the air is drawn down into the housing, over the compressor back to the cooling coil to cool the air and thus repeat the cycle.

Provisional Specn. 5 pages

Drg. 1 sheet.

Compl. Specn. 6 pages.

No Drg. sheet.

CLASS : 172 D 3.

159771

Int. Cl. : D 01 h 7/04.

"IMPROVEMENTS IN OR RELATING TO SPINDLE DRIVE MECHANISM IN RING SPINNING FRAMES AND DOUBLING FRAMES".

Applicants : THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION, COIMBATORE AEROLROME P. O. COIMBATORE 641 014, TAMIL NADU, INDIA. A SOCIETY REGISTERED UNDER THE SOCIETIES REGISTRATION ACT, 1860.

Inventors : 1. TARAKAD VEDAMURTHY RATNAM.
2. VENKATACHALAM RAMA CHANDRAN SIVAKUMAR, 3. SUBRAMANIAN KADIRVEL.

Application for Patent No : 199/MAS/83 filed on 23rd September 1983.

Complete Specification left on 2nd December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

3 Claims

An improved spindle drive mechanism for ring spinning frames and ring doubling frames used in textile industry, comprising a drive roller and four spindles driven by said drive roller by an endless belt or tapewrapped around said drive roller and the spindles wherein the belt or tape is taken from one of the spindles to the drive roller through a guide roller and a tensioned jockey pulley, and the belt or tape is then taken from the drive roller to the opposite spindles, characterized in that, the angle of wrap over the drive roller is less than 180°.

Provisional Specification 6 pages. Drg. 1 sheet.
Compl. Specn. 7 pages.

CLASS : 126 D. 159772

Int. Cl. : G 08 c 25/00.

"A MAGNEDYNE ENCODER".

Applicant : KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD., (ELECTRONICS RESEARCH & DEVELOPMENT CENTRE), KELTRON HOUSE VELLAYAMBALAM, TRIVANDRUM-695 001, KERALA, INDIA.

Inventors : (1) D. Krishna Warriar (2) V. R. Bhaskaran, (3) T. M. Ananda Kumar.

Application No. 216/MAS/83 filed October 31, 1983.

Complete specification left on 16th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A magnedync encoder comprising a rotatable shaft one end thereof for being coupled to an indicating apparatus or instrument whose operation is to be sensed, while the other end thereof is provided with a first sensor such as a magnetic pickup head; a primary coil fixed to the shaft and connected to the first sensor; a secondary coil, unattached to the shaft; a second sensor such as a magnetic pickup head, a disc with a magnet rotatably driven by a prime mover at constant speed, the first and second sensors being disposed close to the disc; and signal indicating means connected to the secondary coil and to the second sensor, whereby as the disc rotates with the magnet, the sensors are activated every time the magnet moves across them to produce signals which are (i) sensed by the first sensor, fed to the primary coil and thence by induction to the secondary coil to the signal indicating means to produce a first wave form and (ii) sensed by the second sensor and fed to the signal indicating means to produce a second wave form, whereby the ratio of the time interval between the pulses generated by the two sensors to that between the pulses generated by the second sensor furnishes a measure of the absolute angular

displacement between the sensors and thence of the shaft displacement.

Provisional specn. 5 pages. Drgs. 2 sheets.
Compl. Specn. 8 pages. No drg. sheet.

CLASS : 134 A. 159773

Int. Cl. : B 60 k 17/28 & 27/04.

"AN ELECTROMECHANICAL DEVICE FOR CHANGING THE RELATIONSHIP OF MOVEMENT BETWEEN THE DRIVER'S ACCELERATOR AND THE POWER CONTROLLING LEVER IN A MOTOR VEHICLE".

Applicant : TECHMECHTRON PRIVATE LIMITED, AN INDIAN COMPANY OF 147-B, 12th MAIN ROAD, IIIrd BLOCK, KORAMANGALA LAYOUT, JAKKASANDRA, BANGALORE-560 034, KARNATAKA STATE, INDIA.

Inventor : RASHID FUTEHALLY.

Application No. 219/MAS/83 filed November 7, 1983.

Complete Specification left on 22nd December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

An electromechanical device for changing the relationship of movement between the driver's accelerator pedal and the power controlling lever on the engine of a motor vehicle, comprising an electromagnetic solenoid-controlled two-stage tracker assembly, adapted to maintain one relationship in the energised state and a second relationship in the de-energised state, operatively connected within the control linkage between the accelerator pedal and the throttle lever of the motor vehicle, said tracked assembly comprising a casing of non-magnetic material having a cylindrical bore with both ends closed, leaving only holes for shafts to pass there through; a cylindrical magnetic solenoid casing attached to a shaft and with a centre pole piece and a solenoid coil fitted around the centre pole piece, a disc like pole piece of magnetic material also attached to a shaft; the solenoid casing and the pole piece being fitted inside the cylindrical casing in such a way that their respective shafts are coaxial and come out through the holes in the ends of the non-magnetic casing and their respective faces are close to each other; both being able to rotate inside the casing, but their angular positions with respect to each other being limited to a precise extent by mechanical stops abutting on each other; one or both of solenoid or pole piece being adapted to move a small distance axially; either the solenoid casing or the pole piece having in its face a plurality of wedge shaped slots with precisely angled sides and the other having the same number of wedge shaped projections having the same angle as the sides of the wedge slots, so disposed that in one specific angular relationship between the solenoid casing and the pole piece where the mechanical stops are at one extreme, the wedges register with the wedge slots, enabling the faces of the solenoid and the pole piece to touch each other when the solenoid is energised, whereas if the faces are not touching, (and therefore the wedges are not entering into the corresponding slots), the solenoid and the pole are free to rotate independently to the extent permitted by the mechanical stops, namely the second operating relationship.

Provisional specification 9 pages. Drgs. 2 sheets.
Compl. Specn. 12 pages. No Drg sheet.

CLASS : 134 D & 24 B

159774

Int. Cl. : F 16 d 51/00.

SLIDING CALIPER DISC BRAKE WITH PAD SUPPORT.

Applicant : LUCAS INDUSTRIES, PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventor : CHRISTOPHER NOIL MATHIAS.

Application for Patent No. 240/Mas/83 filed on 23rd December, 1983.

Convention date on 24th December 1982, 82/36747/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, Madras.

6 Claims

A sliding caliper disc brake comprising a carrier mountable on a vehicle in a fixed position straddling a rotatable brake disc carried by a member to be braked, a pair of brake pads mounted on the carrier respectively at either side of the disc, and a caliper slidably mounted on the carrier for movement relative to the carrier in a direction parallel to the axis of rotation of the disc and having an access opening in an outer wall thereof, the caliper having a first portion supported for said sliding movement and containing actuating means for directly actuating one of said pads by urging it into braking engagement with a disc, and a second portion projecting outwardly of said first portion and straddling the disc to cause indirect actuation of the other of said pads upon slidding movement of the caliper as a result of said direct actuation of said one pad, and the indirectly actuated pad and caliper being provided with interengaging formations of which the mating surfaces lie in planes perpendicular to the direction of said sliding caliper movement said formations being arranged to permit said outwardly projecting caliper part to be additionally supported on the carrier via said indirectly actuated pad and also to permit radial withdrawal of this pad from the carrier through said caliper opening without effecting displacement of the caliper relative to the carrier.

Compl. specn. 8 pages.

Drg. 2 sheets

CLASS : 125 B2, 125 B3 Q 195 E

159775

Int. Cl. : G 05d 7/00.

A DISTRIBUTING MEANS FOR CONVERTING A TUBULAR FLOW OF A FLUID STREAM INTO A SUBSTANTIALLY PLANAR OR CHANNEL FLOW.

Applicants & Inventors : MINPRO PTY LIMITED, AN AUSTRALIAN COMPANY OF 1 NATIONAL STREET, ROZELLE, NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Application No. 79/Mas/84 filed February 7, 1984.

Convention date on 20th January, 1984/PG 3280 (Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

8 Claims

A device for converting a tubular flow of a fluid stream into a substantially planar or channel flow with a substantially uniform volumetric distribution of the fluid across the width of the planar flow, comprising a substantially vertical tube down which the medium can flow; a first plate disposed below the tube and adapted to outwardly deflect the medium flowing from the tube; a second plate inclined relatively to the first plate and adapted to receive medium flowing over the edge of at least a portion of the first plate, characterized in that the first plate includes a substantially horizontal centre region which region is bounded,

at least in part, by a notational line defined by the formula :

$$Y = X \text{ and } - \frac{A}{\tan A} \frac{W}{II}$$

X II

wherein A = $\frac{W}{X}$ in radian

W = The notional width of the second plate.

X = The distance measured along a coordinate

orthogonal to the fall line of the second plate and which has its origin at the point at which the vertical axis of the tube would, if extended, meet the first plate, and

Y = the distance measured along a coordinate parallel to the fall line of the second plate, which coordinate shares a common origin with the x coordinate, and an edge region extending around all, or at least the said part of, the central region, the upper surface of the edge region curving downwardly uniformly about the, or at least the said part of, the central region and terminating as a substantially vertical surface lying along a further line defined by the formula :

$$Y = + \text{ and } - \frac{A}{\tan A} \frac{W}{II}$$

or along such part of that line as corresponds to the said part of the central region.

Compl. specn. 12 pages.

Drg. 3 sheets

CLASS : 119 D, F-3, F-6, F-7

159776

Int. Cl. : D 03 d 47/00.

IMPROVEMENTS IN AND RELATING TO SHUTTLELESS LOOMS.

Applicant : JAMES MACKIE & SONS LIMITED, 'A BRITISH COMPANY OF' R.O. BOX 149, BELFAST, N. IRELAND, BT 12 7ED.

Inventor : DERRICK SHIMWELL.

Application for Patent No. 94/Mas/84 filed on 13th February, 1984.

Convention date on 18th February, 1983, 83/04571/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, Madras.

19 Claims

A shuttleless loom of the type having means whereby weft yarn from a supply source outside the warp shed, is inserted into the shed, said means comprising a weft inserter arranged to be reciprocated into and out from, the shed, wherein guide means are located in the weft yarn path between the weft supply source and the weft inserter, the relative position of the guide means and weft inserter path being such as to cause the weft inserter to withdraw an "excess" length of weft from the weft supply source during "reverse" movement of the inserter from the shed, a weft engaging member being provided to engage weft yarn extending from the front of the weft inserter when it is withdrawn from the shed so as to cause the said "excess" length of weft to be held during the first part of the subsequent forward movement of the inserter into the shed, the weft engaging member being operable to disengage or release the weft during a subsequent part of the forward movement of the inserter.

Compl. specn. 27 pages.

Drg. 6 sheets

CLASS : 55 B1 & B3 + 128 G

159777

Int. Cl. : A 61 L—1/00, 3/00.

A STERILIZING APPARATUS FOR STERILIZING ANY ARTICLES INCLUDING HFAT SENSITIVE ARTICLES AT ROOM TEMPERATURE AND METHOD OF STERILIZING SUCH ARTICLES.

Applicant : NALKUR STRIPAD RAO, AN INDIAN CITIZEN, CHAIRMAN & MANAGING DIRECTOR, PEST CONTROL INDIA (PRIVATE) LIMITED, YUSUF BUILDING, MAHATMA GANDHI ROAD, FORT, BOMBAY-23, MAHARASHTRA, INDIA.

Inventor : BANSIDHAR SADASHIV DHURANDHAR.

Application No. 374/Bom/1983 filed on 28th November, 1983.

Complete after provisional left on 14th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

18 Claims

A sterilizing apparatus for sterilizing any articles including heat sensitive articles at room temperature and using a mixture of ethylene-Oxide gas and 'Freon-12' gas as sterilizing medium comprises a combination of :

- (i) a gas tight sterilizing chamber fitted with door panel at its one side, said door panel having a hub with radially extending arms with door tightening wheel means which when closed on said chamber forms a gas tight closure for said sterilizing chamber;
- (ii) a control panel having respectively two switches, two pilot lamps, one temperature meter, one compound gauge, one thermostat, three nozzles and four control valves; and
- (iii) avacuum pump connected to second switch through said second pilot lamp and said compound gauge;

and said electrical and gas connections being connected in the manner indicated in circuit diagram of Fig. 3 of the drawings accompanying the complete specification, and wherein the sequence and critical variables for said sterilizer are 'Feroxide' gas concentration, temperature, humidity and exposure time as herein described and wherein said sterilization is carried out at room temperature and preferably at 50°C to 60°C.

Provisional specn. 10 pages.

Drg. 2 sheets

Compl. specn. 21 pages.

Drg. 2 sheets

CLASS : 170 D

159778

Int. Cl. : C 11 d—1/12

A PROCESS FOR THE MANUFACTURE OF A DETERGENT ACTIVE DIALKYL SULPHOSUCCINATE MIXTURE.

Applicants : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : APPAYA RAGHUNATH NAIK.

Application No. 17/Bom/1984 filed January 19, 1984.

Convention (U.K.) priority date 21-1-1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

8 Claims

A process of manufacture of a detergent-active dialkyl sulphosuccinate mixture including the steps of :

- (i) esterifying maleic anhydride, maleic acid or fumaric acid with a mixture of straight-chain and/or 2-branched aliphatic alcohols comprising :
 - (a) 25 to 75 mole % of C 8 alcohol;
 - (b) 15 to 75 mole % of C 7 alcohol, and
 - (c) 0 to 35 mole % of C 6 alcohol;
 said alcohol mix being substantially free of material of other chain lengths, and
- (ii) subjecting the esterified product of step :

(a) to bisulphite addition to give the dialkyl sulphosuccinate mixture and

(iii) Optionally converting said mixture to a foaming detergent composition by adding the usual solvent thereto with or without other known active detergent and additive as herein described.

Compl. specn. 34 pages.

Drg. 1 sheet

CLASS : 69 I

159779

Int. Cl. : H 02P—9/00.

A GENERATOR CIRCUITRY TO CONNECT/DISCONNECT A GENERATOR FROM A BUS CONNECTED TO A POWER SUPPLY.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, A JAPANESE COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN, 2-3, MARU-NOUCHI 2 CHOME, CHIYODA-KU, TOKYO 100, JAPAN.

Inventors : (1) TAKAO YAMAUCHI, (2) HAYATO SUZUKI, (3) OSAMU IWABUCHI AND (4) TOSHINOBU KISHIMOTO.

Application No. 99/Bom/1984 filed April 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

15 Claims

A generator circuitry to connect/disconnect a generator from a bus connected to a power supply having a first disconnecter, a breaker and a second disconnecter connected in series with one another between a generator and a bus connected to a power supply, the improvement comprising :

an operating circuit for opening or closing said first and second disconnectors;

means for detecting the output of said generator; and means for prohibiting an action of opening said first and second disconnectors during detection of the generator output by said detecting means.

Compl. specn. 18 pages.

Drg. 3 sheets

CLASS : 32 E & 201 C

159780

Int. Cl. : C 02 b 1/16, 1/40.

METHOD FOR THE REMOVAL OF IRON FROM WATER.

Applicant : ION EXCHANGE (INDIA) LIMITED, AN INDIAN COMPANY OF TIECICON HOUSE, DR. E. MOSES ROAD, BOMBAY-400 011, MAHARASHTRA, INDIA.

Inventors : (1) SHRINIVAS VINAYAK VAIDYA, (2) DNYANESHWAR KHANDU PINGALE, (3) DATTATRAYA MAHADEO DESHPANDE & (4) VIJAY SHRI-PAD KAMAT.

Application No. 103/Bom/1984 filed on April 9, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims

A method for the removal of iron from water which comprises passing iron-containing water in contact with a weak base macroporous anion exchanger prepared by the process of copending Application No. 104/Bom/84 wherein the crosslinking polyethylenically unsaturated monomer is present in the polymerization step of the said process in an amount of not more than 8% by volume of the total volume of polymerizable material and the amines employed for amination step of said process are methylamine and/or dimethylamine.

Compl. specn. 12 pages.

Drg. Nil

CLASS : 32 F2a

159781

Int. Cl. : C 07 C 87/54.

NOVEL METHOD OF MANUFACTURE OF 4-AMINO-DIPHENYLAMINE.

Applicant : BAYER (INDIA) LIMITED, A COMPANY INCORPORATED UNDER THE COMPANIES ACT, 1956 AND HAVING ITS REGISTERED OFFICE AT EXPRESS TOWER, NARIMAN POINT, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors : (1) DR. CHIRARANJAN PODDER, (2) DR. MANDYAM CHAKRAVARTI BADARINARAYANA, (3) AKHILESH BAHRGAVA, (4) DR. VASANT KRISHNARAO HONWAD, (5) DR. MAHENDRA KUMAR SAXENA, (6) DR. VIJAY SHAMRAO HAWALDAR.

Application No. 120/Bom/1984 filed on April 17, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

3 Claims

A process for the manufacture of 4-amino-diphenylamine which comprises reacting 4-nitro-diphenylamine with aqueous NaHS or Na₂S or Na₂S_x or any combination thereof at a temperature in the range of 140–145°C and a pressure of 2–2.8 kgs/cm² and extracting the product with an organic solvent such as herein described.

Compl. specn. 5 pages.

Drg. Nil

CLASS : 40 C IV(1)

159782

Int. Cl. : B 01 d-3/36, C 07b-21/00.

IMPROVED PROCESS FOR THE RECOVERY OF SUBSTANTIALLY PURE ACETONITRILE BY THE REMOVAL OF CYANIDES FROM AN AQUEOUS ACETONITRILE STREAM.

Applicant : INDIAN PETROCHEMICALS CORPORATION LIMITED, A GOVERNMENT COMPANY INCORPORATED UNDER THE COMPANIES ACT, 1956, OF P.O. PETROCHEMICALS, DISTRICT-BARODA-391346, GUJARAT, INDIA.

Inventor : MARAYIL RAVINDRANATHAN.

Application No. 129/Bom/1984 filed April 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

9 Claims.

A process for the recovery of substantially pure acetonitrile by the removal of cyanides from an aqueous acetonitrile stream containing acetonitrile in a concentration of from 40% to 80% by weight which comprises adding to said stream a keto compound such as herein described, adjusting the PH the resultant solution to between 9 to 10 at 250C by adding thereto one or more inorganic reagents selected from hydroxides of magnesium, calcium or iron, silicates, phosphates, carbonates, borates and percarbonates of sodium or potassium and liquor or gaseous ammonium, refluxing said solution, re-adjusting the PH of the refluxed solution to above 9 by further addition of one or more said inorganic reagents and distilling said refluxed and PH re-adjusted solution at a temperature of from 78°C to 85°C under normal pressure to obtain an azeotrope containing at least 90% acetonitrile.

Complete Specification 9 pages Drawing-Nil.

CLASS : 62A, 170BD.

159783

Int. Cal. : C11d 32, 3/02, D06-3/02.

Title. AN IMPROVED BLEACHING AND CLEANING COMPOSITION.

Applicant. M/s. HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165-166, BACKBAY RECLAMATION, BOMBAY-400020.

Inventor. JOHN OAKES.

Applicant HINDUSTAN CIBA-GEIGY LIMITED, OF Convention (U.K.) priority date May 4 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

9 Claims

An improved bleaching and cleaning composition useful at ambient to boiling temperatures comprising

- (a) from 4 to 90% by weight of a known peroxide compound bleach;
- (b) from 0.001 to 10% by weight of a known proteolytic enzyme and characterised in that it also contains from 0.005 to 5% by weight of manganese (II) metal, said composition optionally including from 2 to 50% by weight of a detergent-active material selected from the group consisting of organic anionic, nonionic, amphoteric and zwitterionic detergents and mixtures thereof, and/or from 5 to 90% by weight of a known detergency builder.

Complete Specification 18 pages Drawing NIL.

CLASS : 86A LXVI(4).

159784

Int. Cl. B42f-17/00, A47b-57/00.

IMPROVEMENTS IN OR RELATING TO DRAWER SLIDE FOR A FILING CABINET.

Applicant : GODREJ & BOYCE MANUFACTURING CO. PVT. LTD., OF GODREJ HOUSE, HOME STREET, FORT, BOMBAY-400001, MAHARASHTRA, INDIA.

Inventor. MADHUKAR DAMODAR GAWADE.

Application No. 185/BOM/84 FILED ON JUNE 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

5 Claims

An improved drawer slide or a filing cabinet, said drawer slide comprising a U-shaped fixed channel having a base, a first side wall and a second side wall, said base being rigidly connectable to a cabinet frame, said first side wall being provided with a downwardly directed flange, said second side wall being provided with a pair of L-shaped flanges, each L-shaped flange being at either end of said second side wall and provided with a shoulder, said shoulders of said L-shaped flanges confronting each other, said second side wall being further provided with an upwardly directed flange between said L-shaped flanges; a U-shaped intermediate channel having a base, a first side wall and a second side wall respectively in sliding contact with said base, said first side wall and said second side wall of said fixed channel, said first side wall of said intermediate channel being provided with a downwardly directed flange, said second side wall of said intermediate channel being provided with a pair of shoulders, said shoulders of said second side wall of said intermediate channel being provided with a plastic or rubber mounting, and abutting the shoulders of said L-shaped flanges of said second side wall of said fixed channel and limiting the extreme front and rear movements of said intermediate channel, said base of said intermediate channel being provided with a stopper at its one end or outer end, said stopper being provided with a plastic or rubber mounting, said stopper abutting another stopper provided on the drawer side wall and the laterally projecting side of the drawer front respectively to limit the extreme front and rear movements of the drawer carrier and drawer hereinafter mentioned; a L-shaped drawer carrier rigidly connectable to a drawer of a filing cabinet and having a base and a side wall and being slidably disposed in said intermediate channel, said base and said side wall of said drawer carrier

being opposite and parallel to said first side wall and base of said intermediate channel respectively, said base of said drawer carrier being provided with a downwardly directed flange; a first bearing mounted at one end of said base of said intermediate channel and disposed between said first wall of said fixed channel and said base of said drawer carrier, a second bearing mounted at the other end of said base of said intermediate channel and disposed between the base of said drawer carrier and said second side wall of said fixed channel through a slot provided in said second side wall of said intermediate channel; a first roller and a second roller mounted on said base of said intermediate channel in spaced apart relationship, each of said first roller and second roller being disposed between said base of said drawer carrier and said second side wall of said fixed channel through a slot provided in said second side wall of said intermediate channel, said downwardly directed flange of said base of said drawer carrier being engaged on the side face of the said second bearing, first roller and second roller to restrict said downwardly directed flange of said base of said drawer carrier from coming into contact with said base of said intermediate channel; a guide bracket provided with a track and rigidly supported on said base of said intermediate channel between said downwardly directed flange of said intermediate channel and said base of said drawer carrier, said track facing said base of said intermediate channel; a friction roller floating mounted in said track and disposed between said first side wall of said intermediate channel and said base of said drawer carrier, said first bearing, second bearing, first roller, second roller and friction roller being so spaced apart that at least three of them are always in contact with said drawer carrier; and grommets provided on said base of said fixed channel and on said base of said intermediate channel in spaced apart relationship, grommets provided on said base of said fixed channel being in contact with said base of said intermediate channel and grommets provided on said base of said intermediate channel being in contact with said base of said fixed channel to minimise friction between said base of said fixed channel and said base of said intermediate channel during the sliding movement of said intermediate channel in said fixed channel, grommet also being provided on said first side wall of said intermediate channel to minimise friction between said base of said intermediate channel and said base of said fixed channel and between said downwardly directed flange of said first side wall of said intermediate channel and said downwardly directed flange of said first side wall of said fixed channel during the sliding movement of said intermediate channel in said fixed channel by coming in contact with said base of said fixed channel or said downwardly directed flange of said first side wall of said fixed channel.

Complete Specification—18 pages.

Drawing—3 sheets.

CLASS : 55E.

159785

Int. Cl. C07 d-91/44, 85/48

A PROCESS FOR THE PREPARATION OF NOVEL BENZAZOLE DERIVATIVES AND THEIR SALTS.

Applicant : HINDUSTAN CIBA-GEIGY LIMITED, OF 14 J. TATA ROAD, BOMBAY-400020, MAHARASHTRA STATE, INDIA AN INDIAN SUBSIDIARY OF THE SWISS COMPANY CIBA-GEIGY LIMITED, BASLE, SWITZERLAND.

Inventor : VITTAL RAMACHANDRA RAO.

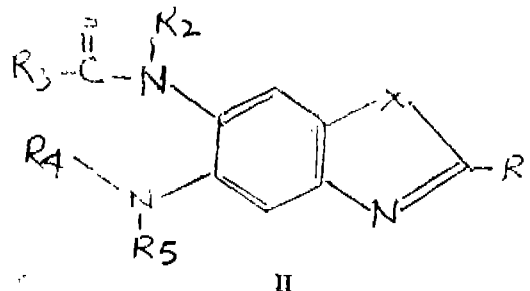
Application No. 211/Bom/1984 filed on July, 27, 1984.

Complete after provisional left on Jul. 26, 1985.

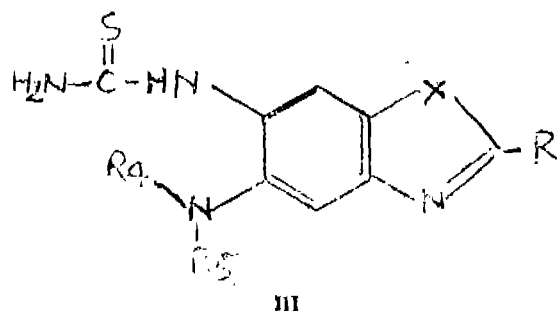
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

2 Claims

A process for the preparation of novel benzazole derivatives of the formula I



wherein X is oxygen or sulphur, R₁ is lower alkyl, lower alkenyl or cycloalkyl, optionally substituted, R₂ is hydrogen and R₃ is lower alkylthio or lower alkenylthio group optionally substituted by esterified carboxy or R₄ and R₅ together are an additional bond of the C-N grouping and R₄ and R₅ are hydrogen lower alkyl or cycloalkyl radicals or taken together are a substituted or unsubstituted bivalent hydrocarbon residue of aliphatic character in which the carbon atoms of the chain may be interrupted by a heteroatom and their salts which comprises pyrolysing a compound of the formula III



wherein X, R₁, R₄ and R₅ are as desired above in a high boiling solvent such as chlorobenzene and, if desired, converting the resulting compound of the formula I into an acid addition salt and/or, if desired, converting the resulting salt of compound of the formula I into free compound thereof.

Prov. specn. 26 pages.

Drugs. 4 sheets

Comp. specn. 17 pages.

Drugs. Nil

CLASS : 33 C+D [XXXIII (3)]

159786

Int. Cl. : B 22 d 11/00.

A FLUX FOR USE IN THE CASTING OF METALS AND A METHOD OF MAKING THE SAME.

Applicant : GREAVES FOSCO LIMITED, AN INDIAN COMPANY OF JOLLY BHAVAN NO. 2, 1ST FLOOR, NEW MARINE LINES, BOMBAY-400020, MAHARASHTRA, INDIA.

Inventors : 1 JOHN HENRY COURTENAY & 2 ROYSTON JOHN PHILIPS.

Application No. 256/BOM/1984 filed September 13, 1984.

Convention (U.K.) priority Date September 22, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

11 Claims

A flux for use in the casting of metals in the form of granules of a composition containing flux ingredients such as herein described including carbonaceous powder, characterised in that the proportion of carbonaceous powder in the surface

of the granules is greater than the overall proportion of the carbonaceous powder in the granules and the overall proportion of carbonaceous powder in the granules is 0.2 to 8% by weight.

Compl. specn. 10 pages.

Drg. Nil

CLASS : 32 B, 32-F^a a

159787

Int. Cl. : C 07 c 11/08† 43/00.

INTEGRATED PROCESS FOR PRODUCING METHYL TERT. BUTYL ETHERS AND BUTENE-1.

Applicant : SNAMPROGETTI S.P.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventor : I. ROMEDIO SANDRIN.

Application No. 631/Cal/83 filed May 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

An integrated process for producing methyl-tert. butyl ether and butene-1 from a C₄-hydrocarbon feedstock which contains isobutene and n-butenes, and which possibly also contains C₆ and C₈ components and other non-hydrocarbonaceous components, butadiene having been previously stripped from said feedstock, said process comprising the steps of feeding said C₄ butadiene-free feedstock to a methyl-tert. butyl-ether-synthesizing section filled with a catalyst composed of an acidic ion-exchange resin, preferably of the sulphonated divinylbenzene-styrene type, reacting the iso-butene content of said feedstock with methanol to produce methyl-tert butyl ether, and separating by distillation said ether from the unreacted feedstock components, said process being characterized in that said unreacted feedstock components are subjected to an extractive distillation with a solvent selected from acetone, acetonitrile, dimethylformamide, methanol, N-methylpyrrolidone, formylmorpholine and furfural, thus separating the major fraction of the C₄-saturated hydrocarbons and the lighter hydrocarbons from an extract composed of said solvent, butene-1, butene-2, the balance of the C₄-saturated hydrocarbons and the heavier hydrocarbons, said extract being subsequently stripped by heating to separate said solvent from the remaining feedstock, said solvent being recycled to the extractive distillation stage, the remaining feedstock being distilled to produce a head-fraction consisting of butene-1, and a bottom-fraction, said bottom fraction being fed to an isomerization stage using silicized alumina as the isomerization catalyst, in which isomerization stage butene-2 and unrecovered butene-1 are partly isomerized to isobutene, the isomerized fraction thus produced being fed to the methyl-tert. butyl ether synthesizing stage.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 32F₃ a

159788

Int Cl : C 07 c 43/00.

Applicant : SNAMPROGETTI S.P.A. OF CORSO VENEZIA 16, MILAN, ITALY.

PROCESS FOR PRODUCING METHYL TERT. BUTYL ETHER.

Inventors : 1. BRUNO DE MAGLIE. 2. RENZO COMIOTTO.

Application No. 632/Cal/83 filed May 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for preparing methyl-tert. butyl ether starting from a C₄-hydrocarbon feedstock which contains isobutene and n-butenes and possibly also C₆- and C₈-components from which butadiene had previously been stripped, comprising the steps of feeding said butadiene-free, or substantially

butadiene-free C₄-feedstock to a methyl-tert. butyl synthesizing section containing a catalyst constituted of by an acidic ion-exchange resin, preferably of the sulphonated divinylbenzene-styrene type, reacting the isobutene content of said feedstock with methanol to produce methyl-tert. butyl ether, and separating said methyl-tert. butyl ether from the unreacted feedstock components, characterized in that the residual C₄-feedstock is subjected to fractional distillation in 2 or 3 stages to separate the saturated hydrocarbons from butene-1 and the butenes-2, said butene-1 and butenes-2 being fed to an iso-merization stage using silicized alumina as the isomerization catalyst, said butenes being partially converted into isobutene, and partially into heavier products, a hydrocarbon fraction being thus obtained, essentially containing butene-1, butene-2 and isobutene together with heavy products consisting of dimers and higher polymers of butenes, the hydrocarbon fraction essentially containing butene-1, butenes-2 and isobutene and possibly also a fraction of the heavy components being fed to the methyl-tert. butyl ether synthesizing section.

Compl. Specn. 11 pages.

Drg. 1 sheet

CLASS : 6-B₁

159789

Int. Cl. : F 25 j 1/00.

AIR FRACTIONATION METHOD.

Applicant : KOBE STEEL, LTD., OF 3-18 WAKINO-HAMA-CHO, 1-CHOME, CHOU-KU, KOBE, 651, JAPAN.

Inventor : I. YASUSHI TOMISAKA.

Application No. 718/Cal/83 filed June 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

1 Claim

A method for fractionation of air comprising feeding a material air compressed by a compressor and cooled by a heat exchanger to a first condenser in which it is subjected to heat exchange with liquefied oxygen in a low pressure column comprising a tower to produce oxygen of high purity by means of fractionating nitrogen of high purity and liquid air being transmitted from medium-pressure column, and removing impurities such as nitrogen, argon therefrom under the low pressure of about 1.2—about 1.5 ata, to evaporate said liquefied oxygen to form an ascending gas in said low-pressure column and, at the same time super-cool the material air to a temperature below the boiling point thereof and thereby cause a partial liquefaction thereof and thereby cause a partial liquefaction thereof, contacting said ascending gas with a reflux liquid from an upper portion of said low-pressure column to effect a fractionation thereof and thereby convert a reflux liquid collected in the bottom of said low-pressure column to an oxygen-rich liquid, introducing said liquefied air into a medium-pressure column comprising a tower to separate liquid nitrogen of high purity from liquid air by means of preliminarily fractionating material air under low temperature and the medium pressure of about 4.5—about 5.0 ata, said liquid nitrogen is necessary as reflux liquid for low pressure column and gasifying the same therein to make ascending gas in said medium-pressure column and contacting it with a reflux liquid produced by condensation at a top of said medium-pressure column to cause a fractionation thereof to give a nitrogen-rich gas at the top of the medium-pressure column, while said reflux liquid is made into liquefied air at the bottom of the medium-pressure column cooling said liquefied air and passing it into a second condenser at the top of a crude argon column comprising a tower to produce oxygen of high purity by means of fractionating the oxygen of low purity including argon, and to discharge argon of high purity at the same time, under the pressure of about 0.8—about 1.0 ata, at the top of it, where it is subjected to heat exchange with an argon-rich, gas in the crude argon column to gasify the liquefied air before it is fed into low-pressure column, characterized in that liquefied oxygen is withdrawn from the bottom of said crude argon column, pressurized under its own weight, and gasified by a reversible heat exchanger to give oxygen product while an argon-rich gas at the top of said crude argon column is withdrawn by means of a blower to maintain the internal pressure of the crude argon column at reduced pressure of 0.8 to 1.0 ata, at the top of said column.

Compl. specn. 16 pages.

Drg. 2 sheets

CLASS : 67-C

159790

Int. Cl. : F 15 b 9/00.

AN ELECTRO-HYDRAULIC POWER SERVO CONTROL SYSTEM.

Applicant : VICKERS, INCORPORATED, OF 1401 CROOKS ROAD, TROY, MICHIGAN 48061, UNITED STATES OF AMERICA.

Inventors : 1. ARTHUR HENRY DEIMEGE, 2. YEHIA MOHAMED EL HUSSEINY EL-IBIARY, 3. MELVIN ARTHUR RODI, 4. LAEI BRINT TAPLIN.

Application No. 758/Cal/83 filed June 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

10 Claims

An electro-hydraulic power servo control system which includes an actuator adapted variably to position a load, means for receiving a position command signal, means for providing an error signal to control said actuator as a combined function of said position command signal and N variable signals indicative of state conditions at said actuator and load, and means responsive to state conditions at said actuator and load for providing said N variable signals comprising

sensor means responsive to said actuator and load for providing a first signal as a function of one dynamic state variable at said actuator; and

observer means responsive to said first signal for estimating the remaining said N dynamic state variable at said actuator and load as a function of a mathematical model of dynamic behaviour at said actuator and load, said observer means comprising

means for periodically sampling said error signal and said first signal,

a plurality of operator-adjustable impedance means for selective adjustment as a function of said dynamic behaviour at said actuator and load, and

programmed digital computation means for selectively and periodically operating said sampling means, and responsive to the sampled error and first signals and to said impedance means for estimating said N dynamic state variable signals.

Compl. specn 50 pages.

Drg. 3 sheets

CLASS : 40-F

159791

Int. Cl. : C 07 c 47/00.

A METHOD FOR REFINING CRUDE BUTYRALDEHYDE.

Applicant : UNION CARBIDE CORPORATION, AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventors : 1. DONALD LEFROY BUNNING, 2. DAVID BRUCE STANTON.

Application No. 763/Cal/83 filed June 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

5 Claims

A method for refining a crude butyraldehyde liquid product mixture to remove therefrom an organophosphorous contaminant and organic heavies said mixture consisting essentially of from 95 weight percent to 99.5 weight percent butyraldehyde, 5 to 500 parts per million of an organophosphorous contaminant, the remainder consisting essentially of organic heavies, said method comprises separating the organophosphorous contaminant and organic heavies as herein described from the butyraldehyde of said liquid product mixture by vaporizing the butyraldehyde of said liquid product mixture while in the presence of a hydrogen containing gas as herein described and removing in a known manner from

the vaporizer (1) a vaporized butyraldehyde-hydrogen containing gas stream and (2) a liquid stream of the organophosphorous contaminant and organic heavies; characterized in that the vaporization is conducted at a temperature in the range of from 40°C to 50°C, a pressure in the range of 20 psig to 150 psig and wherein the mole ratio of H₂ : butyraldehyde is in the range of 1 : 1 to 50 : 1 and, if desired, said vaporized aldehyde-hydrogen containing gas stream is passed to a converter and hydrogenated in the presence of a catalyst comprising a mixture of CuO and ZnO at a temperature of between 110°C and 180°C, a pressure of between 20 psig and 150 psig, and at a space velocity of between 500 and 4000 hr⁻¹.

Compl. specn. 26 pages.

Drg. Nil

CLASS : 131-A₂

159792

Int. Cl. : G 01 v 1/40.

WELL-LOGGING TOOL.

Applicant : SCHLUMBERGER LIMITED, AT 277 PARK AVENUE, NEW YORK, NEW YORK, 10172, U.S.A.

Inventors : 1. WALTER CUBBERLY, 2. ALAIN GEVIGNET.

Application No. 778/Cal/83 filed June 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

9 Claims

A well-logging tool for use within a well borehole for measuring a characteristic of a flowing fluid therein, comprising :

a housing;

means for measuring a characteristic of the flowing fluid, the means for measuring being disposed within the housing; means for sealing the well casing and for directing the flowing fluid into the housing; and characterized by selective by pass means for directing a portion of the flowing fluid away from the housing upon the flowing fluid exerting a predetermined pressure force upon the sealing and directing means, whereby damage to the sealing and directing means from increased pressure forces is minimized and fluid characteristics of fluids having widely varying flow rates may be measured.

Compl. specn. 21 pages.

Drg. 3 sheets

CLASS : 89

159793

Int. Cl. : G 01 n 29/00.

APPARATUS FOR DETERMINE THE QUALITY OF A CEMENT BOND RELATIVE TO A CASING IN A BOREHOLE.

Applicant : SCHLUMBERGER LIMITED, AT 277 PARK AVENUE, NEW YORK, NEW YORK 10172, U.S.A.

Inventors : 1. JEAN-PIERRE HENRI RENE MARCEL MASSON, 2. LEE HENRY GOLLWITZER, 3. ROBERT ALLEN LESTER.

Application No. 821/Cal/83 filed July 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

4 Claims

Apparatus for measuring the quality of a cement bond relative to a casing in a borehole characterized by :

a well tool having two longitudinally spaced acoustic transmitters and at least two longitudinally spaced acoustic receivers disposed between said acoustic transmitters;

said receivers being respectively spaced approximately 7.30 meters and 10.30 meters from each transmitter;

means for repetitively energizing said acoustic transmitters to apply acoustic energy into the casing surrounding said well tool;

said receivers detecting energy from a first of said transmitters arriving at said receivers by way of said casing;

said receivers detecting energy arriving by way of said casing from a second of said transmitters following the firing of said first transmitter;

means for measuring the peak amplitude of a selected portion of the acoustic casing signals detected at each of said receivers;

means for the obtaining a ratio of the peak amplitudes associated with the firing of said first transmitter;

means for obtaining a ratio of the peak amplitude associated with the firing of said second transmitter;

means for combining said ratios to produce a function representative of the attenuation of acoustic energy travelling through the casing; and

means for recording said attenuation rate as a function of tool position in the borehole.

Compl. Specn. 27 pages.

Drg. 3 sheets.

CLASS : 70-A

159794

Int. Cl. : C 22 d 1/06; H 01 m 27/20.

"AN ELECTROLYSIS TANK FOR PRODUCING ALUMINIUM".

Applicant : ALUMINIUM PECHINEY, 23 RUE BALZAC 75008 PARIS.

Inventors : 1. LEROY MICHEL, 2. KEINBORG MAURICE.

Application No. 855/Cal/83 filed July 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta

9 Claims

An electrolysis tank for producing aluminium by electrolysis of alumina dissolved in a bath of molten cryolyte between at least one superior or overlying carbonaceous anode and a pool of molten aluminium covering an inferior or underlying carbonaceous cathodic substrate, said tank comprising, at the interface of the pool of molten aluminium and the bath of molten cryolyte; a floating screen conductive to electric current and made of shaped conductive elements said conductive element comprising porous TiB₂ having an average density between 2.2 and 2.25 gm/cc and wherein said elements further comprises an external layer of TiB₂ having a thickness of at least 20 micrometers in order to make the surface of said elements and said screen superficially fluid tight.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 199.

159795

Int. Cl. : G 01 f 23/00.

"LIQUID LEVEL GAUGE WITH FLUT DETECTOR".

Applicant : THE BARCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035 NEW ORLEANS, LA 70160, UNITED STATES OF AMERICA.

Inventors : 1. MARION ALVARH KEYES, IV 2. RICHARD ALFRED SAIMEN.

Application No. 857/Cal/83 filed July 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta

12 Claims

A liquid level gauge comprising :

a liquid column for containing a level of liquid;

light means on one side of said column for obliquely shining light having at least a first and a second colour through the column, the light of the first color passing through the column without offset above a level of liquid therein and light of the second color passing through the column being offset below the level of liquid therein;

at least detector assembly on an opposite side of said column for receiving light from said light means, said detector assembly comprising a first detector for generating a first signal when light of said first color shines on said detector assembly and a second detector for generating a second signal when light of said second color shines on said detector assembly; and

a detector circuit connected to said at least one detector assembly for indicating which of said first and second detectors is producing a signal.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS 80-K & F.

159796

Int. Cl. B 01 d 33/00.

"A DEVICE FOR SEPARATING LIQUID FROM SLURRY AND COMPRISING A SPILLWAY.

Applicant : ROTO-SIEVE AB., OF HJORTIAGSGATAN 10D, S413 17 GÖTEBORG, SWEDEN.

Inventors : 1. SOREN ANDERSSON, 2. INGVAR JOHANSSON.

Application No. 869/Cal/83 filed July 13 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

7 Claims

A device for separating a liquid from a slurry and which comprises a rotatable longitudinally extending drum provided with an inlet at one end thereof, the mantle wall of said drum being provided with liquid passage openings and internally having a helicoidally extending flange element for feeding the slurry along the drum and which follows the drum in the rotation movement of said drum, wherein a wall element is positioned inside of the drum mantle, said wall element acting as a partition between the slurry department of the drum and a spillway opening means, characterised by said spillway opening means being constituted by a plurality of outlet passages extending through the mantle of the drum and the interior of the drum being limited by an end wall which is connectable to means for driving and/or supporting the drum.

Compl. Specn. 7 pages.

Drg. 2 sheets

CLASS : 172 B, 172 D 5, & 172 D 8.

159797

Int. Cl. D 01 b 7/00

"AN IMPROVED JETTE BOUT ARRANGEMENT FOR USE IN SILK REELING MACHINE".

Applicant and Inventor : BALAKRISHA DHARMARAJ ARYA PROPRIETOR, ARYAN RURAL INDUSTRIES, MAHATMA GANDHI ROAD, KANAKAPURA, 562117, BANGALORE DISTRICT, KARNATAKA, INDIA; AN INDIAN NATIONAL.

Application No. 122/Mas/83 filed 31st May, 1983

Compl. Specn. left on 10th July 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

An improved jettebout for use on silk reeling machines, comprising a stationary inner tube and an outer tube disposed coaxially and rotatably around said inner tube the lower end of the inner tube being provided with a flange

which supports and holds the outer tube in suspension, the lower end of the outer tube being provided with at least a pair of flat, curved and tapered wings extending outwardly and oppositely to each other, the outer tube being provided around its outer wall a freely rotatable gear enmeshing with a drive gear, the upper flat surface of said freely rotatable gear being provided with an integrally or rigidly fixed pin extending upwardly, a protensioned split annulus clip having outwardly extending or projecting lips snugly slipped around the outer wall of said outer tube so as to engage with said fixed pin and impart transmission of drive to the outer tube.

Provisional Specn. 6 pages.

Drg. 1 sheet.

Compl. Specn. 7 pages.

CLASS : 10 C, D & 169 A.

159798

Int. Cl. F 41 c 9/00.

"MOTORISED CYLINDER FOR THE LOADING OF AMMUNITION INTO A GUN".

Applicant : FIVES CAIL BABCOCK, A FRENCH COMPANY OF 7 RUE MONTALIVENT, 75383 PARIS CEDEX 08, FRANCE.

Inventors : BERNARD LACOSTE.

Application No. 43/Mas/84 filed January 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A motorised cylinder for the loading of ammunition into a gun consisting of fixed casing, a rotating body in which several chambers are spaced evenly around its axis, each intended to receive one round of ammunition, and a cam and roller system designed to convert the back and forth motion, parallel to the loading cylinder axis, of a piston into a step-by-step rotation of the loading cylinder body, wherein the cylinder body includes a hollow shaft in which are fitted both the cam and roller system and a jack which actuates the said system, said cam and roller system comprising a set of cams and a set of rollers cooperating with said cams and one of said sets being locked in rotation with the loading cylinder shaft while the other set is mounted on a shaft which is located longitudinally inside the loading cylinder shaft and is connected to the piston of the said jack, the said jack being integral with the casing of the loading cylinder, and wherein means made fast to the said casing are provided to guide the longitudinal motion of the said shaft and to prevent its rotation.

Compl. Specn. 13 pages.

Drg. 3 sheets.

CLASS : 143 D5.

159799

Int. Cl. : B 65 b 9/00.

"AN APPARATUS AND A PROCESS FOR MANUFACTURING PACKAGES FILLED WITH LIQUID".

Applicant : TETRA PAK DEVELOPMENT SA, OF AVENUE C. F. RAMUZ 70, CH-1009 PULLY, SWITZERLAND, A SWISS COMPANY.

Inventor : WILHELM REIL.

Application No. 62/Mas/84 filed February 1, 1984.

Division of Application No. 1187/Cal/80 (154867) dated 21st October, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

Apparatus for producing fluid-filled packs, comprising a means for converting a paper web having a thermoplastic coating into a tube which can be advanced in the apparatus with a stepwise motion in a vertically downward direction,

a longitudinal and a transverse embossing means, scaling jaws which are movable in a horizontal direction and which co-operate in pairs for transversely sealing the tube when it is stationary at respective spacings corresponding to the length of a pack, and a pair of cutting blades disposed beneath the scaling jaws by the length of a feed step motion, for severing the pack from the tube in the region of a transverse welded seam, wherein a forming-out station is arranged beneath a feed means and the transverse embossing means is arranged thereabove, and the station has movable metering elements which engage around the respective pack on all sides and which are disposed between the transverse sealing jaws and the pair of cutting blades characterised in that the mechanically interconnected metering elements comprise two support plates which are each pivotal about a horizontal axis from a horizontal position (along the double-headed arrow) into an obliquely downwardly inclined position, and two longitudinal and transverse metering jaws which are pivotal about axes that are also horizontal, from a vertical position (along double-headed arrows 57 and 63 respectively) into an obliquely downwardly inclined position.

Compl. Specn. 25 pages.

Drg. 6 sheets

CLASS : 172 E.

159800

Int. Cl. D 029 3/00.

"AN APPARATUS FOR YARN WINDING".

Applicant : N. P. A. "TEXTILNO MASHINOSTROENE", 10, N. RILSKI STREET, GABROVO, A STATE ECONOMIC ENTERPRISE ORGANISED UNDER THE LAW OF BULGARIA.

Inventors : 1. ILIYA TZOCHEV ILIEV, 2. BOJIDAR GEORGIEV TOTEV, 3. BONCHO VASSILEV YONKOV, 4. NIKOLAY ANDREEV VRAJLOV, 5. VLADIMIR VASSILEV NVIKOV.

Application No. 69/Mas/84 filed 3rd February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

Yarn winding apparatus comprising :

a fixed frame;

a winding shaft rotatably mounted in said frame;

a winding drum axially movably mounted on the winding shaft;

a bobbin support arm mounted on said frame and carrying a bobbin which is pressed against the winding drum;

first and second axially spaced friction plates fixedly mounted on the winding drum for rotation therewith, the first friction plate being associated with one end of the winding drum and the second friction plate being associated with the opposite end of the winding drum;

drive means arranged to be rotated by the winding shaft;

an electromagnetic device arranged at said one end of the winding drum and operable, when energised, to draw the winding drum towards the electromagnetic device so as to bring said first friction plate in to driving engagement with said drive means in order to drive the winding drum from the winding shaft;

a braking device fixed to said frame and arranged at said opposite end of the winding drum; and

a spring arranged to bias the winding drum, when the electro-magnetic device is de-energised, so as to bring the second friction plate into engagement with the braking device in order to retard the rotation of the winding drum.

Compl. Specn. 10 pages.

Drg. 2 sheets.

CLASS : 23 H & 4A4.

159801

Int. Cl. B 64 d 100.

"BOX DISTRIBUTOR FOR SEQUENTIALLY DISCHARGING OBJECTS FROM AIRCRAFT AND LAND-CRAFT."

Applicant : TECNOVAR ITALIANA S.P.A., VIA ARGILRO 95, 70121 BARI—ITALY AN ITLIN COMPANY.

Inventor : LUDOVICO FONTANA.

Application No. 74/Mas/84 filed 6th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

8 Claims

A distributor for sequentially discharging objects from landcraft or aircraft means, of the type comprising a box-shaped framework with a plurality of vertical compartments, closed at the base by shutters, and control means for selectively opening said shutters; characterized in that the distributor has a stiff box-shaped based housing said shutters and control means, two sidewalls hinged on the two longitudinal opposite edges of the base, a top wall detachably secured to the top of said sidewalls, and for transport, means for releasably retaining said top wall beneath the box-shaped base when the wall is detached from the said walls, while the sidewalls are turned one over the other, above the upper face of said base, the upper face of the base and the lower face of the top wall are provided with rails for guiding and anchoring a plurality of stiff containers, said rails forming said vertical compartments for the objects to be discharged and sown, and being closed at the base by said shutters tilting under control.

Compl. Specn. 11 pages.

Drg. 5 sheets.

CLASS : 90 A

159802

Int. Cl. : C 03 b—27/00.

QUEENCH STATION FOR TEMPERING GLASS SHEETS.

Applicant : GLASSTECH, INC., 995 FOURTH STREET, AMPOINT INDUSTRIAL PARK, PERRYSBURG, OHIO-43551, U.S.A.

Inventor : RONALD SHLEY Mc MASTER AND ROBERT GEORGE Mc MASTER.

Application No. 84/Mas/84, filed February 8th, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

12 Claims

A quench station for tempering glass sheets comprising :

opposed blastheads of a composite construction for supplying quenching gas to a heated glass sheet of a predetermined shape positioned therebetween such that the glass sheet is rapidly cooled to provide a tempering thereof;

each blasthead including a pair of outer layers;

each blasthead also including an inner layer attached to each of said outer layers;

each inner layer having inner and portions that define inlets to the adjacent passages;

each inner layer also having outer and portions that define outlets through which the quenching gas exits;

such that the passages extend generally perpendicular to the predetermined shape of the glass sheet during the tempering;

characterized in each inner layer having passages of a generally circular cross section along substantially the entire length of each of the passages and through which the quenching gas is supplied;

each of said passages having inlet and outlet ends, said inlet end having a diameter at least slightly larger than said outlet end.

Compl. specn. 24 pages.

Drg. 2 sheets

CLASS : 31 C

159803

Int. Cl. : H 01 c 17/00.

ELECTRICAL RESISTOR AND METHOD OF MAKING THE SAME.

Applicant : TRW INC., OF 19880 WILSHIRE BOULEVARD, LOS ANGELES, CALIFORNIA, UNITED STATES OF AMERICA, INCORPORATED IN THE STATE OF OHIO, UNITED STATES OF AMERICA.

Inventors : (1) KENNETH MALCOLM MERZ AND, (2) HOWARD EDWIN SHAPIRO.

Application No. 86/Mas/84 filed February 9, 1984.

DIVISION OF APPLICATION NO. 1205/Cal/79 dated 19th November, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

6 Claims

An electrical resistor comprising a ceramic substrate and a resistor material on a surface of said substrate, said resistor material comprising a film of glass and particles of tantalum and additive particles embedded in the dispersed throughout the glass film, said resistor material containing 28-77% by weight of the tantalum, said additive particles being present in upto 50% by weight of the tantalum particles and selected from the group of metals titanium, boron, tantalum oxide (Ta_2O_5), titanium oxide (TiO) barium oxide (BaO_2), zirconium dioxide (ZrO_2), tungsten trioxide (WO_3), tantalum nitride (Ta_3N), titanium nitride (TiN), molybdenum disilicide ($MoSi_2$), and magnesium silicate ($MgSiO_3$).

Compl. specn. 32 pages.

Drg. 1 sheet

CLASS : 116 B & G

159804

Int. Cl. B 65 g, 53/06.

APPARATUS FOR TRANSPORTING PARTICULATE MATERIAL.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CARD VAN BYLANDT-LAAN 30, THE HAGUE, THE NETHERLANDS, A COMPANY ORGANIZED UNDER THE LAWS OF THE NETHERLANDS, A RESEARCH COMPANY.

Inventors : MARRTEN JOHANNES VAN DER BURGT.

2. GUNTER KLAUS ECKSTEIN.

Application No. 92/Mas/84 filed February 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

11 Claims

Apparatus for transporting particulate material from a low pressure space to an elevated pressure space, comprising a sequence of at least two vertical oblong vessels, primary transport means for transporting the particulate material from the low pressure space to the top of the first oblong vessel, secondary transport means for transporting the particulate material from the bottom of the last oblong vessel to the elevated pressure space, intermediate transport means arranged between the bottom of an oblong vessel and the top of a next oblong vessel, a pipe for maintaining during normal operation the gas pressure at the bottom of the last oblong vessel substantially equal to the gas pressure prevailing in the elevated pressure space, a pipe for maintaining during normal operation the gas pressure at the

top of the first oblong vessel substantially equal to the gas pressure prevailing in the low pressure space, a pipe for maintaining during normal operation the gas pressure at the top of a next oblong vessel substantially equal to the gas pressure prevailing at the bottom of a preceding oblong vessel, and a pipe for maintaining during normal operation the gas pressure at the bottom of each oblong vessel higher than the gas pressure at the top of that oblong vessel, such that practically no gas escapes from the top.

Compl. specn. 15 pages.

Drig. 2 sheets

Class : 157 A 3.

159805

Int. Cl. : E 01 b 7/00.

"AN APPARTUS FOR SECURING STOCK RAILS OR GUIDE RAILS IN POINTS."

Applicant : SCHWIBAG GESELLSCHAFT FÜR EISENBAHN OBERBAU MBH a SWITZERLAND COMPANY, of CH-8274 GOTTLIEBHEN SWITZERLAND.

Inventor : ARMIN HEIM.

Application for Patent No. 107/Mas/84, filed on 18th February, 1984.

Convention Date on 30-12-83/8334620/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

8 Claims

An apparatus for securing rails, in particulars stock rails or guide rails, in points, comprising a base plate for the rail having a slide chair or trestle for the points-tongue or the check rail arranged thereon, a clamping plate attachment or a clamping clip attachment or clamping attachment on the outside of the rail foot of the stock rail or guide rail and a substantially U-shaped spring clip for holding down the rail foot on the slide chair side or the check rail trestle side and which may be inserted into a passage on the lower side of the slide chair or in the check rail trestle and which extends beyond the inside of the rail foot, the free ends of the legs of the spring clip when the spring clip is in a relaxed state being secured by catch connections with stops of the slide chair or the check rail trestle and the passage on the lower side of the slide chair or in the check rail trestle and/or on the upper side of the spring clip having a hump like boss which acts as an abutment when the spring clip is tensed, and wherein a further hump-like boss is provided in the spacing between the first boss and the inside of the rail foot on the lower side of the slide chair or in the check rail trestle or on the clamping clip, the said further boss having, when the clamping clip is normally braced a very small clearance with respect to the upper side of the clamping clip and/or with respect to the support plane of the slide chair or the check-rail trestle.

Complete Specn. 24 pages.

Drawg. 5 Sheets.

CLASS : 32 F3(a)

INT. CL. : C 07 d 7/34

PROCESS FOR THE PREPARATION OF CHROMENES

Inventor : ALKALOIDA VEGYESZETI GYAR, A BODY CORPORATE ORGANISED UNDER THE LAWS OF HUNGARY, OF 4440 TISZAVASVAR HUNGARY.

Inventors : (1) Dr. Tibor Timar (2) Dr. Kalman Zsupan, (3) Dr. Janos Repasi, (4) Iren Borses nec Safran/ek, (5) Dr. Istvan Kiss, (6) Dr. Andras Foder and (7) Dr. Peter Marey.

Application No. 109/MAS/84 filed February 18, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

Process for the preparation of chromones of the general Formula V

shown in the drawings wherein

R_1 and R_2 are hydrogen, optionally halogene substituted C_1 -6alkyl;

R_3 and R_7 stand for hydrogen;

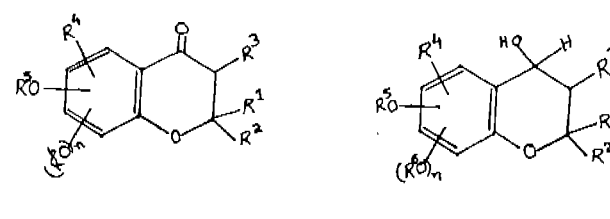
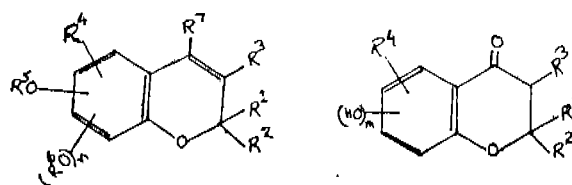
R_4 represents C_1 -8 alkyl, aryl, aralkyl or a group containing a carbonyl group;

R_5 and R_6 are the same or different and stand for C_1 -10 alkyl, aryl, amino, hydroxyalkyl, alkoxyalkonyl, alkylmercaptoalkyl acyl, carboxy or an ester group or a halogen atom;

n is 0 or 1

which comprises

reacting a compound of the general Formula I



first with a reactant of the general Formula R^5-X in a molar ratio of 1:0.8-1:1.5 and then if desired with an agent R^6-X in a molar ratio of 1:1.5 wherein R^5 and R^6 have the same meaning as stated above m is 1 or 2 and X is halogen, if desired stepwise, in an optional sequence in the presence of alkali hydroxide or carbonate, potassium iodide as a catalyst and an organic solvent or water and thereafter hydrogenating the compound of the general Formula III obtained wherein R^1-R^6 and n are as stated

above and dehydrating in acidic-aqueous medium the chromanol derivative of the general Formula IV thus obtained wherein R^1-R^6 and n are as stated above.

Complete Specn. 55 pages Drig. 2 sheets

Class : 144 E.

159807

Int. Cl. : C14c 1/00.

"PROCESS FOR THE SOFTENING OF SKINS AND HIDES."

Applicant : ROHM GmbH, A GERMAN BODY CORPORATE OF KIRSCHENALLEE, 6100 DARMSTADT 1, FEDERAL REPUBLIC OF GERMANY.

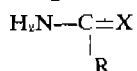
Inventors : ROELF MONSHEIMER & ERNST PELEDERER.

Application for patent No. 791/Del/80 filed on 3rd November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

14 Claims

A process for the softening of hides or skins comprising treating the said hides or skins with an aqueous softening liquor containing at least one compound of formula I



(Wherein R represents a hydrogen atom or a $-\text{NH}_2$, $-\text{CH}$ or $-\text{NH-CN}$ group, and X represents an oxygen or sulphur atom or a $=\text{NH}$ group; or $\text{R}-\text{C}=\text{X}$ together represents a heterocyclic group, the heteroatom(s) whereof is/are only nitrogen atom(s) or an acid addition salt thereof.

Compl. specn. 12 pages.

Drwg. Nil.

Class : 32 F₂

159808

Int. Cl. : C07C--121/18.

"CONTINUOUS ACETONITRILE RECOVERY PROCESS".

Applicant : THE STANDARD OIL COMPANY, AN OHIO CORPORATION, HAVING A PLACE OF BUSINESS AT PATENT & LICENSE DIVISION, MIDLAND BUILDING, CLEVELAND, OHIO, 44115, UNITED STATES OF AMERICA.

Inventors : ROBERT DEAN PRESSON, HSIN-CHIH WU AND EDWARD JOSEPH SOCKELL.

Application for Patent No. 802/DEL/1981 filed on 23rd December, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

10 Claims

1. A continuous process for recovering highly pure acetonitrile from crude acetonitrile containing acetonitrile, water, HCL and heavy organics, said process comprising :

(1) distilling said crude acetonitrile in a first distillation zone at a first pressure at or above 1 atmosphere to remove HCN therefrom and produce a first acetonitrile/water azeotrope and a first bottoms product containing water,

(2) distilling said first azeotrope in a second distillation zone at a second pressure less than 1 atmosphere to separate said first azeotrope into a second bottoms product containing water and a second acetonitrile/water azeotrope having a greater acetonitrile concentration than said first azeotrope, and

(3) distilling said second acetonitrile/water azeotrope in a third distillation zone at a third pressure above 1 atmosphere to produce a third acetonitrile/water azeotrope containing substantially all of the water in said second azeotrope, third bottoms product comprising acetonitrile and heavy organics and a sidestream comprising said highly pure acetonitrile.

Complete specn. 9 pages.

Drawing 1 sheet

Class : 143D₀

159809

Int. Class : B65b 17/00.

"A MACHINE FOR OVERWRAPPING OF PRODUCTS".

Applicant : KHOSLA ENGINEERS, A REGISTERED PARTNERSHIP FIRM OF 644, SECTOR-16D, CHANDIRAGH-160016, INDIA OF WHICH THE PARTNERS ARE LAJPAT RAI KHOSLA AND RAJESH KHOSLA, BOTH INDIAN NATIONALS OF THE SAID ADDRESS.

Inventor : LAJPAT RAI KHOSLA.

Application for Patent No. 331/Del/82, filed on 28th April, 1982.

Complete specification left on 25th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

8 Claims

A machine for overwrapping of products such as hereinbefore referred to comprising a turret having a plurality of pockets for receiving overwrapped pockets or stacks of the products, each of the said pockets having a bottom support, side walls or supports and a top support, the top support having a continuous gap permitting penetration of a discharge pusher, a walking beam which support the discharge pusher and also serves to impart penetrating movement to the discharge pusher and a mechanism for moving the walking beam vertically and horizontally.

(Provisional specification 6 pages).

Complete specn. 11 pages.

Drawing 2 sheets.

Class : 24D.B.F.

159810

Int. Cl : B60t-15/00 & F16d-55/14, 55/18, 65/66.

"DISC BRAKE WITH AUTOMATIC ADJUSTMENT".

Applicant : SOCIETE ANONYME D.B.A., OF CENTRE PARIS PLEYEL, 93521 ST DENIS CEDEX 01, FRANCE, A FRENCH COMPANY.

Inventor : JEAN-JACQUES CARRE AND PIERRE PRES-SACO.

Application for Patent No. 757/DEL/1983, filed on 14th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

Disc brake with automatic adjustment device incorporating a Caliper mounted to slide on a fixed support by means of at least one axial pin slideably mounted in the fixed support, a brake motor is formed in Caliper acting directly on a first friction element slideably mounted in the fixed support and the second element mounted on the Caliper, said brake motor incorporating a mechanical actuator acting on a hydraulic control piston, mounted in the brake motor through said automatic adjustment device, said adjustment device comprising a screw and nut system of reversible pitch located between said piston and said mechanical actuator capable of being actuated by said hydraulic control piston beyond a predetermined stroke of the latter, characterised in that said automatic adjustment device incorporates a sleeve which is fixed in rotation to said nut and which cooperates with a monitoring piston in the brake motor immobilising said sleeve in its rotation and translational movement when the hydraulic pressure acting on said hydraulic control piston reaches a predetermined value.

Complete specification 12 pages.

Drawing 2 Sheets

CLASS : 195 B

159811

Int. Cl. F16k 11/00.

"A PRESSURE PROPORTIONING VALVE".

Applicant : BENDIX LIMITED, A BRITISH COMPANY, OF DOUGHLAS ROAD, KINGSWOOD, BRISTOL, BS15 2NT, ENGLAND.

Inventor : IAN NOEL JOSEPH.

Application for Patent No. 47/Del/84 filed on 17th January, 1984.

Convention date 25-1-83, 8301962/(U. K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A pressure proportioning valve comprising a housing having an input pressure port, an output port and a vent port, said housing including therein a moveable lappable double valve assembly and aligned therewith in said housing a movable variable area ratio pressure responsive means for controlling the functioning of the double valve assembly in accordance with the setting of a ratio control

member, the lappable double valve assembly comprising two relatively moveable parts, the first of said parts including a double valve member urged by a captive spring into engagement with an inlet valve seat and the second of said parts including a vent valve seat engagement of which with the double valve member can disengage it from the inlet valve seat, one said part being carried by the variable area ratio pressure responsive means and the other said part being carried by a member located in said housing and connected to said ratio control member for setting an operative position of said member by the control member, said variable area ratio pressure responsive means having on one side thereof an area subject to fluid pressure at the input pressure port in a direction to tend to cause said variable area ratio pressure responsive means to closely engage the valve member with the vent valve seat and open a connection via the inlet valve seat between the input pressure port and the output port, and said variable area ratio pressure responsive means having on the other side thereof another area which is subject to pressure at the output port in an opposing direction to tend to unseat the valve member from the vent valve seat to open a connection between the output port and the vent port and wherein said vent valve seat is itself carried by further fluid pressure responsive means subject to said fluid pressure so as to be moveable in response to pressure corresponding to more than a given input pressure value to adjust the position of said vent valve seat and thereby displace the lappable position of the double valve in the housing to assist the effect of the delivered pressure on the variable area ratio pressure responsive means whereby in operation the delivered pressure rises correspondingly to bring input port pressure upto said given pressure valve followed by displacement of the lapping position of the double valve in the housing and progressive adjustment before proportioning by virtue of the ratio of said areas as set by the control member.

Compl. Specn. 17 pages.

Drgs. 2 sheets.

CLASS : 71 G

159812.

Int. Cl. : E 02 f 3/36.

"LOCKING DEVICE FOR SECURING A SLIP-OVER FORWARDLY PROJECTING ADAPTER TO THE LIP OF AN EXCAVATOR".

Applicant : ESCO CORPORATION, A CORPORATION ORGANISED UNDER LAWS OF THE STATE OF OREGON, U.S.A., OF 2141 N.W. 25TH AVENUE, PORTLAND, OREGON 97210, UNITED STATES OF AMERICA.

Inventor : LARREN FRANK JONES & JEFFREY PAUL EARLL.

Application for Patent No. 113/Del/84 filed on 7th February, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A locking device for securing a slip-over forwardly projecting adapter to the lip of an excavator which comprises a C-clamp member straddling said lip while extending through vertically aligned openings provided in said adapter and lip, a wedge member also extending through said aligned openings forwardly of said clamp member, said clamp member having a forward facing wall confronting said wedge member and having a forwardly projecting arcuate surface, said wedge member having a rearwardly facing wall having an arcuate surface for sliding on the arcuate surface of said C-clamp member, and a bolt means extending through said arcuate surfaces and releasably interconnecting said members whereby tightening of said bolt means causes the arcuate surface of said wedge member to slide on the arcuate surface of said C-clamp member and to bear against said lip opening so as to lock said adapter on said lip.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 195 D.

159813.

Int. Cl. : F 16 k 13/00.

"FLAP VALVE FOR CLOSING AN OPEN END OF A CONDUIT FOR DISCHARGING MATERIAL".

Applicant : FULLER COMPANY, A COMPANY ORGANISED UNDER THE LAWS OF STATE OF DELAWARE, U.S.A., OF 2040 AVENUE 'C', P.O. BOX 2040, BETHLEHEM, PENNSYLVANIA 18001, U.S.A.

Inventor : STEPHEN ANDREW LUKACZ.

Application for Patent No. 188/Del/84 filed on 29th February, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A flap valve for closing an open end of a conduit for discharging material comprising :

a shaft adapted to be rotatably mounted in a fixture;

a flap having a surface for closing an open end of said conduit, one end of said flap engaging said shaft;

at least one dog mounted on said shaft and having a leg lying atop said one end of said flap;

said dog being keyed to said shaft whereby when a force is applied to the surface of said flap which closes said conduit; said force is transmitted through said dog to said shaft to tend to rotate said shaft about its own axis to open said material-discharging conduit.

Compl. Specn. 13 pages.

Drg. 2 sheets.

CLASS : 180.

159814.

Int. Cl. : F24b 3/00.

"AN IMPROVED BURNER ASSEMBLY".

Applicant : SUPER PARTS PRIVATE LIMITED, 14/1, DELHI MATHURA ROAD, FARIDABAD-121003 (HARYANA), AN INDIAN COMPANY.

Inventor : RAHOUL RAI.

Application for Patent No. 252/Del/84 filed on 22nd March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

3 Claims

An improved burner assembly for gas appliances comprising a linear burner on which a metal plate is mounted; lanced metal strips being connected to the said metal plate on either side of the said linear burner, said lances strips housed in a wire mesh of substantially parabolic cross section.

Compl. Specn 7 pages.

Drg 1 sheet.

CLASS : 23B & 55B.

159815.

Int. Cl. : B65d 31/00 & B65b 55/18.

"APPARATUS FOR STERILISING THERMOPLASTIC COATED TUBULAR BLANKS".

Applicant : EX-CELL-O-CORPORATION, OF 2855 COOLIDGE, SUITE 300, TROY, MICHIGAN 48064, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MICHIGAN, U.S.A.

Inventor : FRANK ANDREW RODOCKER.

Application for Patent No. 462/Del/84 filed on 5th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

An apparatus for sterilizing thermoplastic coated four-sided open ended tubular blanks on a forming, filling and sealing machine having an indexing mandrel assembly, and means for placing such tubular blank on one of its sides on conveyor means; said apparatus comprising a source of sterilant under pressure; a storage tank for receiving and dispensing said sterilant in a fog state; and a fixed atomizing nozzle operatively connected to said storage tank and mounted on said machine in axial alignment with each respective tubular blank on said conveyor means for dispensing said sterilant fog into and through the tubular blank through the adjacent open end thereof just prior to and concurrent with said tubular blank being moved toward and mounted on an axially aligned mandrel of said indexing mandrel assembly by said conveyor means, to thereby begin the sterilizing process at substantially the earliest possible time and additionally serve to sterilize said indexing mandrel assembly.

Compl. Specn. 9 pages.

Drg. 2 sheets.

CLASS : 143D_a.

159816.

Int. Cl. : B65b 17/00.

"A MACHINE FOR OVERWRAPPING OF PRODUCTS".

Applicant : KHOSLA ENGINEERS, A REGISTERED PARTNERSHIP FIRM OF 644, SECTOR-16D, CHANDIGARH-160 016, INDIA WHOSE PARTNERS ARE LAHPAT RAI KHOSLA AND RAJESH KHOSLA, BOTH INDIAN NATIONALS OF SAID ADDRESS.

Inventor : RAJESH KHOSLA.

Application for Patent No. 637/Del/84 filed on 8th August, 1984.

Additional to patent applicaion No. 331/Del/82 filed on 28th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A machine for overwrapping of products comprising a turret having a plurality of pockets, each of the said pockets of the turret having a bottom support, side support and a top support, said top support having a continuous gap so as to allow the interpenetration of a discharge pusher, a walking beam adapted to impart an interpenetration movement to the discharge pusher, said discharge pusher being secured to or supported on said walking beam as described in main patent application No. 331/Del/82 characterized in that means are provided for imparting a movement to said walking beam along the horizontal plane and an inclined plane, said means comprising a sliding block on which said walking beam is mounted, said block arranged to have a sliding movement along a guide rail pivotally secured at one end, and a crank for imparting the sliding movement to said block along the horizontal axis.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 37 A.

159817.

Int. Cl. : B01d 45/00.

"SPIRAL SEPARATOR FOR SEPARATING A SLURRY CONTAINING A FIRST SPECIES FROM A SECOND SPECIES HAVING A SPECIFIC GRAVITY LESS THAN THE FIRST SPECIES".

Applicant : MINERAL DEPOSITS LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES COMMONWEALTH OF AUSTRALIA, OF 81 ASHMORE ROAD, SOUTHPORT, QUEENSLAND, AUSTRALIA.

Inventors : DOUGLAS CHARLES WRIGHT.

Application for Patent No. 316/Del/84 filed on 10th April, 1984.

Convention date 13th April, 1983/8850 & 31st May, 1983/9618/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

A spiral separator for separating a slurry containing a first species from a second species having a specific gravity less than that of the first species comprising a helical trough including an inner wall and an outer wall connected by a floor and having at least one take-off opening provided in said helical trough for a concentrated species separated from a remainder of said slurry, said separator including deflection means provided upstream of said take-off opening so that a band of said remainder which in use of the separator at least partially overlies a concentrate band of said slurry is delivered in an outward direction relative to the said concentrated band.

Compl Specn. 17 pages.

Drg. 2 sheets.

CLASS : 130 D

159818

Int. Class : C 22 b-13/00.

"A METHOD FOR PRODUCING LEAD FROM SULPHIDIC LEAD RAW MATERIALS."

Applicant : BOLIDEN AKTIEBOLAG, a Swedish Company, of Sturegatan 22, Box 5508, S-114 85 Stockholm, Sweden.

Inventor : STIG ARVID PETERSSON.

Application for Patent No. 341/Dle/1984 filed on 19 April, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(5 Claims)

A method for producing lead from sulphidic lead raw-materials by means of a direct smelting process of the kind in which the lead raw-materials are smelted autogenously in a shaft, with the aid of oxygen gas or air enriched in oxygen, optionally by adding fluxes, there being formed an oxide-containing molten product which is caused to pass into a coke bed arranged in the lower part of the shaft, to form a lead phase and a slag depleted in lead, characterized by continuously heating the coke bed, by partially combusting carbon therein and/or by supplying electrical energy thereto.

(Complete specifications 9 pages)

CLASS : 32 F₃(b).

159819

Int. Class : C07c-55/02.

"AN IMPROVED PROCESS FOR THE PREPARATION OF MONOALKYL ESTER OF AZELAIC ACID".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : RAJAT BARAN MITRA, RAMCHANDRA SHRINIWAS JOSHI AND KHUSHALCHAND FAKIRCHAND LUNKAD.

Application for Patent No. 507/Del/1984 filed on 21st June 1984. Complete specification left on 31st July 1985.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(3 Claims)

An improved process for the preparation of monoalkyl ester of azelaic acid comprises reacting commercial castor oil with an alcohol to give the alkyl ester of ricinoleic acid, which is oxidised by known methods to give a mixture of n-heptanoic acid (enanthic acid) and mono alkyl ester of azelaic acid and separating the mixture by distillation.

(Provisional Specification 4 pages)

(Complete specification 5 pages)

CLASS : 114 E.

159820

Int. Class : C14c 1/00.

"A COMPOSITION FOR USE IN THE SOFTENING OF HIDES OR SKINS".

Applicant : ROHM GmbH, a German body corporate of Kirschenallee, 6100 Darmstadt 1, Federal Republic of Germany.

Inventors : ROLF MONSHEIMER & ERNST PELEIDERER.

Application for patent No. 576/Del/84 filed on 16th July, 1984.

Divided out of patent application No. 791/Del/80 filed on 3rd November, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(5 Claims)

A composition for use in the softening of skins or hides comprising at least one compound of formula I



(I)

(wherein R represents a hydrogen atom or a $-\text{NH}_2$ $-\text{CH}_3$ or $-\text{NH}-\text{CN}$ group; and X represents an oxygen or sulphur atom or an $=\text{NH}$ group; or R-C=X together represents a heterocyclic group, the heteroatom(s) whereof is/are only nitrogen atoms, the said heterocyclic group preferably being substituted by one or more amino groups) or an acid addition salt thereof and at least one protease.

(Complete specification 10 pages).

CLASS : 63 E

159821

Int. Class : H 02k 9/00, 9/24, G05d 23/00, F01p 7/16, 11/18.

"THERMOSTATS FOR LIQUID COOLING SYSTEMS".

Applicant : GEORGE BROWN, a citizen of the United States of America, residing at 317 South Barbor Drive, Venice, Florida 33595, United States of America.

Inventor : GEORGE BROWN.

Application for Patent No. 605/Del/1982 filed on 6th August, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(5 Claims)

A thermostat (10) for a liquid cooling system comprising : a frame (12) with a stem (16) attached to said frame, a seat member having a flow opening therethrough, said stem extending through said flow opening, a closure member movable between an open position spaced from said seat member and a closed position in engagement with said seat member, said closure member when in engagement with said seat member closing said flow opening, at least one aperture provided in said closure member or in said seat member, means for biasing said closure member to the closed position, one end of said biasing means in engagement with said closure member and the other end of said

biasing means in engagement with said frame, temperature responsive means connected to said closure member for moving said closure member to said open position against the force of said biasing means, and fusible means in said aperture of said closure member or said seat member, said fusible means melting at a predetermined temperature to allow flow of cooling liquid past said closure member or said seat member when said closure member is in said closed position.

(Complete specification 6 pages

Drawing one sheet)

CLASS : 205 G.

159822

Int. Class : B60C 23/04, 23/10.

"AIR SUPPLY SYSTEM FOR INFLATED TYRES OF VEHICLES WITH PLANETARY WHEEL AND DRIVE".

Applicant : MAGYAR VAGON ES GEPGYAR, of H-9002 Győr, pf 50, Hungary.

Inventors : LASZLO PALMAY & ANTAL HARVATH.

Application for patent No. 92/Del/83 filed on 15th February 1983.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(4 Claims)

Air supply system for inflated tyres of vehicles with planetary wheel end drive which comprises an antifriction guide bearing (14) arranged on the end of the axle shaft (5) equipped with an air conduit bore (6) :

a joining element (9) fitted to the outer ring of said guide bearing (14), said joining element being provided with an internal extension coaxial with and penetrating into an extended end portion of said air conduit bore (6) in the axle shaft (5);

a sleeve packing (11) connected between the outer surface of said extension and the inner surface of said extended end portion;

said joining element is provided with an air conduit connecting said air conduit bore (6) and the tyre of the vehicle; characterised in that

an elastic connecting element (15) is arranged between the external rim of said joining element (9) and the ride of the cage (18) of said planetary wheel end drive.

(Complete specification 6 pages

Drawing 1 sheet)

CLASS : 32-A₂.

159823

Int. Class : —C09b 23/10.

"PROCESS FOR THE PREPARATION OF CATIONIC METHINE DYESTUFFS".

Applicant : — BAYER AKTIENGESellschaft, a Germany Company of 509, Leverkusen, Bayerwerk, West Germany.

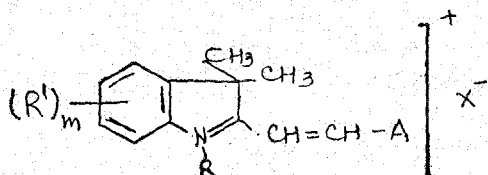
Inventors : — RODERICH RAUF, HANS PETER KUHLETHAU & KLAUSFRIEDRICH LEHMERT.

Application for patent No. 93/Del/83 filed on 15th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

(9 claims)

Process for the preparation of cationic methine dyestuffs of the general formula I



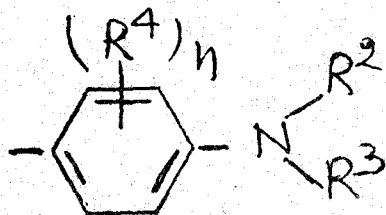
R represents an alkyl radical which has 1 to 4 C atoms and is optionally substituted by hydroxyl, alkoxy having 1 to 4 C atoms, acyloxy, halogen, cyano, carboxyl, C₁ to C₄ carboalkoxy, carbon amido or acetyl,

R¹ represents hydrogen, alkyl having 1 to 4 C atoms, halogen, alkoxy having 1 to 4 C atoms, hydroxyalkoxy having 2 to 4 C atoms, a phenoxy,

benzyloxy or benzyl radical which is optionally

substituted by halogen, C to C₄ alkyl or C₁ to C₄ alkoxy, carboxyl, a carboxylic acid alkyl ester which has 1 to 4 C atoms, a carbon amide group which is optionally substituted by 1 or 2 C₁ to C₄ alkyl radicals, a sulphonamide group which is optionally substituted by 1 or 2 C₁ to C₄ alkyl radicals, alkylsulphonyl having 1 to 4 C atoms, phenylsulphonyl or a cyano, trifluoromethyl, acetyl or benzoyl group,

A represents a radical of the formula I



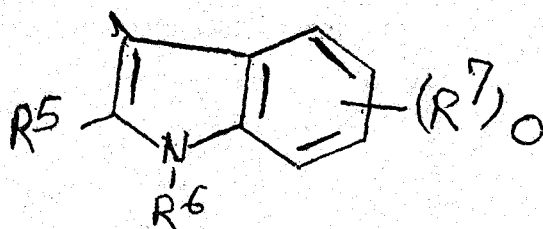
R and R¹ independently of one another represent an alkyl radical which has 1 to 4 C atoms and is optionally substituted by hydroxyl, C₁ to C₄ halogen, cyano, phenyl, carboalkoxy having 1 to 4 atoms, carbomido, acyloxy, benzyloxy, sulphonamido or acyl amino,

R² additionally represents a phenyl or benzyl radical which is optionally substituted by halogen, C₁ to C₄ alkyl or C₁ to C₄ alkoxy or, together with the adjacent C atom of the benzene ring, can form a partially hydrogenated 5 membered or 6-membered ring which contains N and optionally contains O, and

R⁴ denotes hydrogen, an alkyl radical having 1 to 4 C atoms or an alkoxy radical having 1 to 4 C atoms or halogen

or

A represents a radical of the formula III



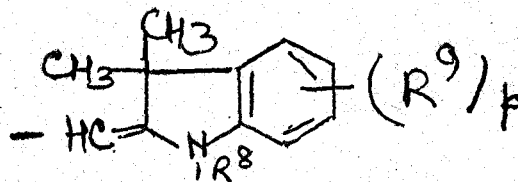
R⁵ represents an alkyl radical having 1 to 4 C atoms, a phenyl radical which is optionally substituted by halogen, C₁ to C₄-alkyl or C₁ to C₄ alkoxy, or a carboalkoxy radical having 1 to 4 C atoms,

R⁷ represents hydrogen, an alkyl radical which has 1 to 4 C atoms and is optionally substituted by hydroxyl, halogen, alkoxy having 1 to 4 C atoms, cyano or acyloxy, and

R⁷ represents hydrogen, halogen, C₁ to C₄ alkyl, C₁ to C₄ alkoxy, carboalkoxy having 1 to 4 C atoms, C₁ to C₄ alkylsulphonyl, phenylsulphonyl, acetyl or benzoyl,

or

A represents a radical of the formula IV

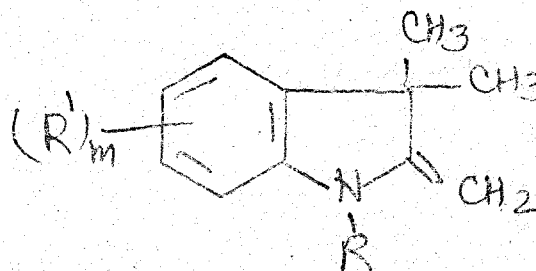


R⁸ and R⁹ independently of one another have the same meaning as R and R¹, and in which

X represents the radical of an inorganic acid or acid salts of a polybasic acid and

the indices m, n, o and p independently of one another denote 1 to 4,

by subjecting a compound of the formula V



where R, R¹ and m have the meaning indicated above, to a condensation reaction with a compound of the formula VI

A—CHO

A has the meaning indicated above, and with acids, characterised in that the condensation reaction is carried out using 1 to 5 equivalents of an inorganic acid in the absence or in the presence of up to 30% by weight of an organic solvent and up to 15% by weight of water (both the weights quoted relating to the total weight of the organic starting components).

(Complete specification 27 pages

Drawing 8 sheets)

CLASS : 178.

159824

Int. Class : B28d 1/22.

"A BLADE CARRYING FRAME IN COMBINATION WITH A PACK OF BLADES WHICH MAY BE REMOVED IN BLOCK FROM THE FRAME FOR MOUNTING IN A MACHINE FOR CUTTING MARBLE, GRANITE AND HARD STONES".

Applicant : BRETON S.p.A., an Italian company of Via Garibaldi, 4 Castello DI Godogo, Treviso, Italy.

Inventors : MARCELLO TONCELLI & WALTER CADO.

Application for patent No. 247/Del/83 filed on 14th April, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(3 Claims)

A blade-carrying frame in combination with a pack of blades which may be removed in block from the frame for mounting in a machine used for sawing marble, granite and hard stones, said pack comprising a plurality of blades (1), a plurality of spacer elements (2) interposed between adjacent blades, tie rods (3) and (4) connected to respective ends of said plurality of blades (1), said tie rods (3) and (4) also being respectively connected to heads (7) and (8) of said frame, a plurality of wedge-shaped inserts (6) connected to said tie rod (4) which function to hold the blades under tension against the head (8) of the frame, said heads (7) and (8) having respective openings 9) and (10) of sufficient size whereby the entire pack of blades may be non-destructively removed in one piece from the frame through the head (8) and a new pack of blades inserted in its place.

(Complete specification 6 pages)

Drawing 2 sheets)

CLASS : 32 F 2 b (IX(1)).

159825

Int. Class :— C 07 d — 49/18.

"PROCESS FOR THE PREPARATION OF PYRAZOLO-PYRIDINE COMPOUNDS."

APPLICANT(S) :— ICI AMERICAS INC., of Concord Pike and New Murphy Road, Wilmington Delaware 19897 U.S.A. a company under the laws of the State of Delaware the United States of America.

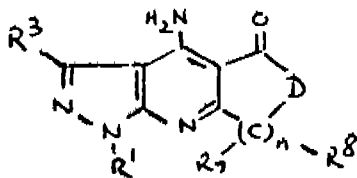
INVENTOR(S) :—THOMAS MICHAEL BARE and JAMES BONIFACE CAMPBELL JNR.

Application for Patent No. 281/DEL/1983 filed on 4th May 1983.

Appropriate office for opposition proceedings (Rule 4 Patent Rules 1972) :—Patent Office Branch New Delhi-110005.

(4 CLAIMS)

A process for the preparation of pyrazolopyridine compounds of the following formula (I) of the accompanying drawings wherein



R¹ is C₁₋₁₀ straight or branched chain alkyl group; a C₁₋₁₀ straight or branched chain alkyl group substituted by 1 or 2 substituents independently selected from hydroxy groups, C₁₋₆ alkoxy groups or oxo groups; a halogen substituted C₁₋₁₀ alkyl group; a C₃₋₈ cycloalkyl group; a C₄₋₁₂ cycloalkylalkyl group; a C₃₋₁₀ alkenyl or alkynyl group; a C₆₋₁₀ aryl group; a C₆₋₁₀ aryl group substituted by 1 or 2 substituents independently selected from halogen, hydroxy, C₁₋₆ alkyl, C₁₋₆ alkoxy and fluoro-substituted C₁₋₆ alkyl; a C₇₋₁₂ arylalkyl group; or a (substituted aryl) alkyl group in which the aryl moiety contains 6 to 10 carbon atoms and the alkyl moiety contains 1 to 4 carbon atoms, the said aryl moiety being substituted by 1 or 2 substituents independently selected from halogen, hydroxy, C₁₋₆ alkyl, C₁₋₆ alkoxy and fluoro-substituted C₁₋₆ alkyl;

R³ is hydrogen or a C₁₋₆ straight or branched chain alkyl group;

D is oxygen or NR-6

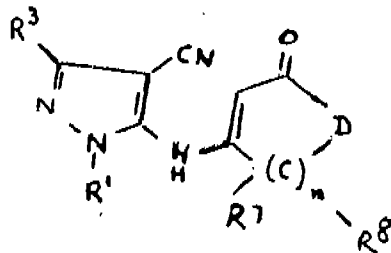
R⁶ is hydrogen; a C₁₋₁₀ straight or branched chain alkyl group; a C₁₋₁₀ straight or branched chain alkyl group substituted by one or two substituents independently selected from hydroxy, C₁₋₆ alkoxy and oxo; a halo-substituted C₁₋₁₀ alkyl group; a C₃₋₈ cycloalkyl group; a C₄₋₁₀ cycloalkylalkyl group; a C₃₋₁₀ alkenyl or alkynyl group; a C₆₋₁₀ aryl group; a C₆₋₁₀ aryl group substituted by 1 or 2 substituents selected from

halogen, hydroxy, C₁₋₆ alkyl, C₁₋₆ alkanoyl, C₁₋₆ alkoxy, C₁₋₆ haloalkyl, nitro, cyano, C₂₋₇ alkoxy-carbonyl, amino, and dialkyl-substituted amino groups with 1 to 12 carbon atoms; a C₇₋₁₂ arylalkyl group; a (substituted aryl) alkyl group in which the aryl moiety contains 6 to 10 carbon atoms and the alkyl moiety contains 1 to 4 carbon atoms, the said aryl moiety being substituted by 1 or 2 substituents independently selected from halogen, hydroxy, C₁₋₆ alkyl, C₁₋₆ alkanoyl, C₁₋₆ alkoxy, C₁₋₆ haloalkyl, nitro, cyano, C₂₋₇ alkoxy-carbonyl, amino, and mono- and dialkyl-substituted amino groups with 1 to 12 carbon atoms; or a C₇₋₁₂ aryl (oxo-substituted) alkyl group; n₇ is 1 or 2;

R⁷ is hydrogen, C₁₋₆ straight or branched chain alkyl, C₆₋₁₀ aryl, C₆₋₁₀ aryl substituted by 1 or 2 substituents selected independently from halogen, hydroxy, C₁₋₆ alkyl, fluoro-substituted C₁₋₆ alkyl and C₁₋₆ alkoxy; a C₇₋₁₂ arylalkyl group, or a substituted aryl) alkyl group in which the aryl moiety contains 6 to 10 carbon atoms and the alkyl moiety contains 1 to 4 carbon atoms, the said aryl moiety being substituted by 1 or 2 substituents independently selected from halogen, hydroxy, C₁₋₆ alkyl, fluoro-substituted C₁₋₆ alkyl and C₁₋₆ alkoxy; and

R⁸ is hydrogen, C₁₋₆ alkyl, C₆₋₁₀ aryl, C₆₋₁₀ aryl substituted by 1 or 2 substituents selected independently from halogen, hydroxy, C₁₋₆ alkyl, fluoro-substituted C₁₋₆ alkyl and C₁₋₆ alkoxy; a C₇₋₁₂ arylalkyl group; or a (substituted aryl) alkyl group in which the aryl moiety contains 6 to 10 carbon atoms and the alkyl moiety contains 1 to 4 carbon atoms, the said aryl moiety being substituted by 1 or 2 substituents independently selected from halogen, hydroxy, C₁₋₆ alkyl, fluoro-substituted

C₁₋₆ alkyl and C₁₋₆ alkoxy; or a pharmaceutically-acceptable acid-addition salt thereof, which comprises internally cyclizing a compound of the following formula (V) of the



drawings at a temperature of 150° to 250°C. and if desired preparing the pharmaceutically-acceptable salt thereof by known method.

(Complete specifications 26 pages)

Drawings 2 sheets)

CLASS : 116 G.

159826

Int. Class : B60p 1/16.

"A VEHICLE WITH LOADING DEVICE".

Applicant : WORLDWIDE TRUCKS LIMITED, a British Company of Les Rondiaux, St. Peter's, Guernsey, Channel Islands.

Inventors : EDGAR PHILIP STRANGER & JOHN MAHY.

Application for patent No. 298/Del/83 filed on 10th May, 1983.

Convention date 10th May, 1982/8213423/(U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(9 Claims)

A vehicle with a loading device comprising

(a) a chassis (1) having a load-receiving surface,

(b) a pair of gantries (14, 15) spaced longitudinally on the chassis, each gantry including :

(i) a generally L-shaped two-arm cranked member (16, 17) having a first arm (16) pivoted by a free end portion thereof to the chassis for movement about an axis disposed longitudinally of the chassis and a second arm (17) projecting above the chassis,

(ii) a jib arm (21) pivoted by one end portion to a free end portion of said second arm (17) for movement about an axis disposed longitudinally of the chassis, and

(iii) connecting means (23, 24, 25, 26) on the jib arm (21) for connecting to a load, the cranked members (16, 17) being movable about their pivots (18) into and between a stowed condition in which an upper surface of the first arm lies at or below the level of the load-receiving surface and a raised position in which the first arm (16) extends above the level of the load-receiving surface,

(c) powered drive means (29) for shifting the cranked members (16, 17) relative to the chassis into the stowed and raised positions, and

(d) powered drive means (32) for moving each jib arm (21) relative to the respective cranked member (16, 17).

(Complete specification 16 pages

Drawing 3 sheets)

CLASS : 176 I & 177 D.

159827

Int. Class : F22g 5/00.

Applicant : SULZER BROTHERS LIMITED, OF ZURCHERSTRASSE 9, CH-8401 WINTERTHUR, SWITZERLAND, A SWISS COMPANY.

Inventors : REINHARD LEITHNER, GEORGE BÖTHE AND JOHANN SCHLESSING.

Application for Patent No. 401/Del/1983 filed on 14th June 1983.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

A steam generator having at least two drainable superheater each superheater being equipped with a drain line, the drain line of one of said superheaters, preferably of the lowest superheater, having a water-level gauge (18), all the drain lines (12) (13) (14) (15) (16) (17) being connected to a drain manifold (23) disposed geodetically lower than the water-level gauge (18), characterised in that check valves (22) are disposed in those drain lines (12) (13) (14) (15) (16) (17) which are devoid of a waterlevel gauge, whereby all the drain lines (12) (13) (14) (15) (16) (17) form together with the drain manifold (23) a communicating pipe system, and that the drain manifold (23) is provided with a discharge line (24) having a shutoff valve (25) being connected via a signal line (29) to the water-level gauge (18).

Compl Specn. 7 pages.

Drg. 1 sheet.

CLASS : 93.

159828

Int. Class : C04b-5/02.

"APPARATUS FOR PELLETIZING MOLTEN MINERAL MATERIALS SUCH AS METALLURGICAL SLAGS"

Applicant : ENTREPRISE GAGNERAUD PERE & FILS, A FRENCH COMPANY OF 7/9, RUE AUGUSTE MAQUEST 75016 PARIS, FRANCE.

Inventors : ROUSSEL MICHEL AND KUNICKI MARYAN.

Application for Patent No. 432/Del/1983 filed on 27th June, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

Apparatus for pelletizing molten mineral materials, such as metallurgical slags, for recovery of expanded particles, granules or pelletized products, comprising means for forming the molten material into a sheet and subjecting the molten sheet to spraying with water jets;

a rotary drum having blades and means to rotate said rotary drum in the path of the stream of partially expanded and water jet cooled molten material to fragment said stream and project the formed particles into the atmosphere where cooling continues; means for receiving the partially cooled particles projected by said rotary drum;

characterised in that said rotary drum is fluid-tight and includes internal cooling means for effecting cooling of said fluid-tight drum by internal circulation of water in a closed circuit;

said rotary, fluid-tight drum having blades of a scop or chistara shape; and

said means for receiving the cooled particle comprising a series of vibratory tables arranged in a cascade, of which, the last, and farthest from said rotary drum receives the contents from the tables upstream thereof, and a conveyor means, for receiving the collected dry pellets delivered by the last table.

Compl. Specn. 13 pages.

Drg. 2 sheets.

CLASS : 4 A.

159829

Int. Cl. : B 64 d 25/10.

"APPARATUS FOR AERODYNAMICALLY YAW-STABILIZING AN AIRCRAFT SEAT".

Applicants : STENCEL AERO ENGINEERING CORP., A CORPORATION OF THE STATE OF NORTH CAROLINA OF MUNICIPAL AIRPORT ROAD, ARDEN, NORTH CAROLINA 28704, U.S.A.

Inventor : JAMES WILLIAM DUNCAN.

Application for Patent No. 568/DEL/83 filed on 19th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

An apparatus for aerodynamically yaw-stabilizing an aircraft seat (10) after ejection of the seat and its occupant from the aircraft and deployment of a drogue parachute (70) but before deployment of a supporting parachute, the seat being of the type having side structural members (11, 11) lying in generally vertical, parallel planes generally defining the lateral limits of the seat back, the apparatus comprising the combination of first and second stabilizing fins (20, 21), each of said fins having an elongated shape, one of said fins (20) being designated for use on the left side of the seat and the other (21) for use on the right side; and first and second means (30, 30, 36, 36) attached respectively to the side members of the seat and to the end portion (24, 24) of the fins, for rotatably supporting the fins for movement between a stowed position in which the major portions (23, 23) of the fins lie in planes generally parallel with said side members and a deployed position in which the fins are rotated to the rear of the seat through an angle of between approximately 80° and 120° from the stowed position to rearwardly extending positions,

One end portion (24) of each of the fins being bent to lie at an obtuse angle A relative to the remaining major portion (23) thereof; in the stowed position, the end portions (24, 24) of the fins lying in planes forming an acute angle B with the planes containing the seat side members (11, 11); and in the deployed position the major portions

(23, 23) of the fins lying in outwardly extending planes forming an acute angle C with the planes containing the side members (11, 11) and forming an acute angle 2 C with each other.

Compl. Specn. 12 pages.

Drg. 4 sheets.

CLASS : 206 B E G.

159830

Int. Cl. : H04j-3/06.

"APPARATUS FOR SYNCHRONISING STORED PROGRAM".

Applicant : TELEFONAKTIEBOLAGET L. M. ERICSSON of S-126 Stockholm, Sweden, a Swedish company.

Inventors : STIG RAGNAR EMANUEL JONSSON and LARS-ERIK ANDERS LARSSON.

Application for Patent No. 576/Del/1983 filed on 24th August 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

Apparatus for selection of one a plurality of principles for synchronising stored program controlled digital telecommunication stations interconnected by means of time-division-multiplex (TDM) links (3—6), each station including

a transmission pulse oscillator (1) provided with a frequency regulation input, a plurality of reception pulse clocks (7) connected each to an associated TDM link (4), a phase difference meter (12) whose inputs are connected to said oscillator and to said clocks,

and a regulation value generator (9) whose input and output, respectively, is connected to the output of said phase difference meter and to said frequency regulation input, respectively,

the apparatus being characterised in that each station includes a clock selector (13) provided with a control input for connecting the phase difference meter (12) to selected ones of the clocks (7), a plurality of regulation value generators (9—11) associated each with one of the synchronising principles, whose outputs are connected to said frequency regulation input, a generator selector (15) provided with a control input for connecting a selected one of the generators (9—11) to the output of said phase difference meter (12) and a synchronising principle selection device (16—23) whose inputs and outputs, respectively, are connected to a TDM link (4) and to the control inputs of said two selectors (13 and 15), respectively.

Compl. Specn. 7 pages

Drg. 1 sheet.

Class :— 32 F — 3 C.

Int. Class :—CO7c 31/02.

159831

PROCESS FOR DEHYDRATING C-C- ALKANOL".

Applicant : LUMMUS CREST INC., formerly known as THE LUMMUS COMPANY, of 1515 Broad Street, Bloomfield, New Jersey 07003, United States of America, a corporation organised and existing under the laws of the State of Delaware, United States of America.

Inventor : LOUIS LEONARD FORNOFF.

Application for patent no. 55/Del/81 filed on 29th January 1981.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

14 Claims

A process for the dehydration of a C₂-C₅ alkanol comprising distilling, at an elevated pressure, such as herein described, a crude aqueous C₂-C₅ alkanol feedstock comprising a C₂-C₅

alkanol to an extent short of formation of the azeotrope of said alkanol to form a gaseous alkanol - H₂O mixture; admixing an amount of an inert gas of CO₂ or N₂ with said mixture to form an admixture; drying said gaseous admixture with an adsorbent consisting essentially of a type 3A crystalline zeolite; and condensing the dried ethanolic product at an ambient temperature, said elevated pressure and said amount being sufficient to permit condensation of said product at ambient temperatures.

Complete specification 28 pages

Drawings 3 Sheets.

CLASS : 84 B.

159832

Int. Cl. : C07c—31/02.

"PROCESS FOR THE PRODUCTION OF AN ETHANOL-GASOLINE FUEL".

Applicant : LUMMUS CREST, INC., a U.S. corporation, duly incorporated in the state of Delaware, having a principal place of business and duly residing at 1515 Broad Street, Bloomfield, New Jersey 07003, U.S.A.

Inventor : LOUIS LEONARD FORNOFF.

Application for Patent No. 642/Del/84 filed on 10th August, 1984.

Divisional to 55/Del/81 filed on 29th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A process for the production of an ethanol-gasoline fuel for internal combustion engines, comprising distilling, at an elevated pressure, such as herein described, a crude aqueous ethanol feedstock to produce a gaseous ethanol-H₂O mixture comprising at least about 75 mole % ethanol; adding an amount of an inert gas selected from the group consisting of CO₂ and N₂; drying said gaseous admixture with an adsorbent consisting essentially of a type 3A crystalline zeolite, said pressure and said amount being sufficient to permit condensation of a dried ethanolic product at an ambient temperature; condensing the dried ethanolic product at an ambient temperature; recovering the anhydrous ethanol; and mixing said anhydrous ethanol with sufficient gasoline so as to produce an ethanol-gasoline blend suitable for use as said fuel.

Compl. Specn. 27 pages

Drg. 3 sheets.

CLASS : 39 E.

159833

Int. Cl. : C01b-35/00.

"PROCESS FOR PREPARATION OF DENSE BORON CARBIDE BY HOT PRESSING".

Applicant : Chief Controller, Research & Development, Ministry of Defence, Government of India, New Delhi, India, an Indian citizen.

Inventors : BALBHADRAPATRUNI VENKATA SATYA SUBBA RAO, CHALLA SURYANARAYANA, DONURU MALLA REDDY & ADIRAJU CHANDRASEKHAR RAO.

Application for Patent No. 175/Del/1983 filed on 17th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5

3 Claims

A process for the preparation of dense boron carbide which comprises in heating boron carbide powder to a temperature of between 1000°C and 1600°C, loading the said powder in a die, introducing the loaded die in a vacuum furnace and then subjecting the said powder to an initial step of cold pressing followed by heating at 1800°C to 2150°C to final step of application of pressure.

Compl. Specn. 5 pages.

Class : —32F 1&2 (b) & 55E4.

159834

Int. Class : —CO7d 91/00.

A. PROCESS FOR THE PREPARATION OF 2-GUANIDINO-4-(2-SUBSTITUTED-AMINO-4-IMIDAZOLYL) THIAZOLES".

Applicant :— PFIZER INC., a corporation organized under the laws of the State of Delaware, United States of America of 235 East 42nd Street, New York, State of New York, United States of America.

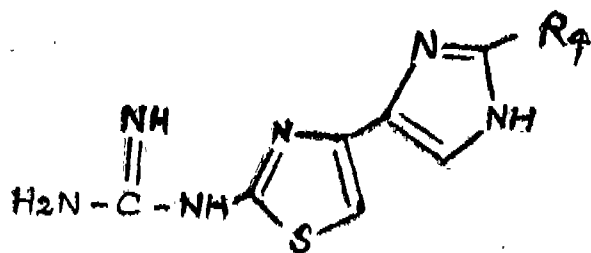
Inventors :— JOHN LAWRENCE LaMATTINA & CHRISTOPHER ANDREW LIPINSKI.

Application for Patent No. 186/Del/83 filed on 22nd March 1983.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005

6 claims

A process for the preparation of a compound of the general Formula III wherein R_4 is NHR_5 or NR_2R_3 ;



R_5 is (C_1-C_{12}) alkyl, (C_3-C_8) cycloalkyl, (C_6-C_{11}) -pyridylalkyl or (C_7-C_{12}) phenylalkyl, optionally monosubstituted or disubstituted on the phenyl group with chloro, bromo, fluoro, (C_1-C_3) alkyl, (C_1-C_3) alkoxy or trifluoromethyl; and

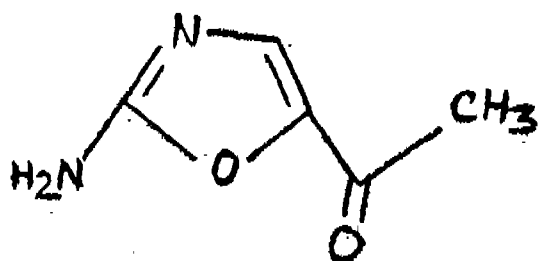
R_2 and R_3 are each independently (C_1-C_{12}) alkyl or (C_7-C_{12}) phenylalkyl, optionally monosubstituted or disubstituted on the phenyl group with chloro, bromo, fluoro, (C_1-C_3) alkyl, (C_7-C_3) alkoxy or trifluoromethyl; or

R_2 and R_3 are taken together with the nitrogen to which they are attached to form a pyrrolidine, piperidine, perhydro-1H-azepine, or morpholine ring;

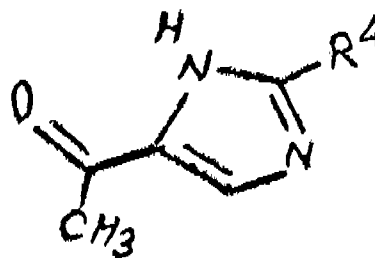
which comprises the steps of :

(a) reacting the oxazole of the formula IV with an excess of an amine of the formula

R_2NR_3 or HNR_2R_3

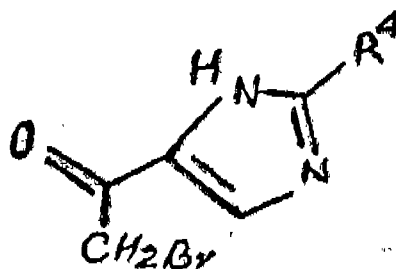


wherein R_2 , R_3 and R_4 are as defined above in aqueous solvent, to form a 5-acetyl-imidazole of the formula V.



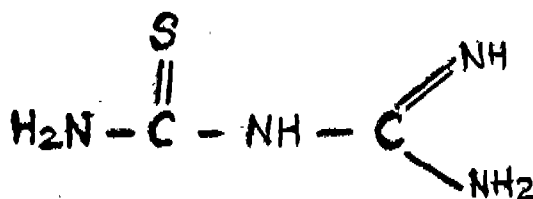
wherein R_4 is as defined above;

(b) brominating the imidazole of the formula V under acidic conditions to form a bromoacetyl-imidazole of the formula VI



wherein R_4 is as defined above; and

(c) coupling the bromoacetyl-imidazole of the formula VI with a compound of the formula VII



to form the compound of the formula III, and isolating the product so formed by a conventional method.

Compl. Specn. 33 pages

Dr. 1 sheet.

CLASS : 39 K IIII & 40 H [IV (1)].

159835

Int. Cl. : C 01 b-31/18.

"A PROCESS FOR TREATING A GASEOUS STREAM CONTAINING CO_2 TO REMOVE SAID CO_2 ."

Applicants : EXXON RESEARCH AND ENGINEERING COMPANY, a corporation of Delaware, United States of America, carrying on business as a company for the holding of patents and granting licenses thereunder and technical development and research work at Florham Park, New Jersey, United States of America.

Inventors : DAVID WILLIAM SAVAGE and GUIDO SARTORI.

Application for Patent No. 309/DEL/1983 filed on 12 May 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972), Patent Office Branch, New Delhi-110 005.

9 Claims

A process for treating a gaseous stream containing CO_2 to remove said CO_2 comprising contacting said gaseous stream

(1) in an absorption step absorbing said CO_2 from said aqueous stream with an aqueous absorbing solution comprising (a) a basic alkali metal salt or hydroxide selected from the group consisting of alkali metal bicarbonates, carbonates, hydroxides, borates, phosphates and their mixtures, and (b) an activator or promoter system for said basic alkali metal salt or hydroxide, comprising :

(i) at least one non-sterically hindered amino compound, and

(ii) at least one sterically hindered amino acid, and

(2) in a desorption and regeneration step known per se, desorbing at least a portion of the absorbed CO_2 from said absorbing solution.

Compl. Specn. 27 pages.

Drg. one sheet.

CLASS : 32 A 2.

159836

Int. Cl. : C09 b 49/04.

"PROCESS FOR THE PREPARATION OF 1-AMINO-BENZENE. 2. SULPHONIC ACIDS".

Applicants : BYER AKTIENGESSELLSCHAFT, a body corporate organised under the laws of the Federal Republic of Germany, of Leverkusen, Federal Republic of Germany, Manufacturers.

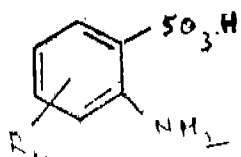
Inventors : MARTIN MICHNA & HERMAN HENK.

Application for Patent No. 341/Del/83 filed on 24th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1970) Patent Office Branch, New Delhi-110 005.

6 Claims

Process for the preparation of 1-aminobenzene 2-sulphonic acids of the formula I

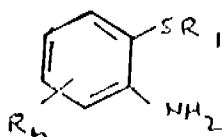


of the kind such accompanying drawings wherein

$R = H$ or a substituent of the kind such as herein described and

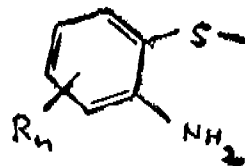
$n = 1-4$

and their salts, in particular their alkali metal salts, by oxidation of compounds of the formula II



of the drawings wherein

$R_1 = H$, a cation, in particular an alkali metal cation, or a radical of the formula IIA



of the drawings by method such as herein described characterised in that the oxidation is carried out at PH 5—14.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 116 G & 94 G.

159837

Int. Cl. : B 65 g, 65/30, 65/48 & 3/10.

"HOPPER GATE".

Applicant : IVAN VASILIEVICH MOKHOV of ulitsa Prof-sojuznaya 48, korpus 4, kv. 20, Moscow, U.S.S.R. and VASILY SERGEEVICH BOROVKOV of ulitsa Petrovka, 24, kv 36, Moscow, U.S.S.R., both U.S.S.R. citizens.

Inventor : IVAN VASILIEVICH MOKHOV & VASILY SERGEEVICH BOROVKOV.

Application for Patent No. 777/Del/83 filed on 22nd November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A hopper gate comprising a housing with inlet and outlet ducts, and a rotor having vanes defining pockets, said rotor being mounted on a shaft supported in the housing, said shaft having axial and radial passages communicable with a source of compressed gas, and a gas control valve having an annular cavity characterised in that said gas control valve is divided by radial partitions into isolated unequal sections, the gas control valve being rotatably mounted on the shaft; the wall of said inlet duct having a plurality of holes communicable by a conduit with one another and with one of said isolated unequal sections of said annular cavity in turn communicating with one of said radial passages of said shaft.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 107 D & 127 G.

159838

Int. Cl. : B 60 K—17/04 & 19/12.

"A POWER TRANSMISSION SAFETY GEAR BOX".

Applicant : SULTAN SINGH JAIN, B-63, Shantinagar, Roorkee, District Saharanpur, Uttar Pradesh, India, Indian Nationality.

Inventors : SULTAN SINGH JAIN.

Application for Patent No. 007/DEL/1984 filed on the 03rd January 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

1. A POWER TRANSMISSION SAFETY GEAR BOX comprising a housing having :

(a) one or more pairs of different diameters of spur gears mounted on an input shaft connected to the

engine through a clutch, an output shaft connected to the wheels through a differential of a vehicle, and a transmission pinion is fitted on a spring loaded bar in between a pair of said spur gears the said transmission pinion on being pressed by a bottom lever engages two opposite side spur gears; the said bottom lever is operated by pressing a top lever fitted with a handle to dis-engage the bottom lever stopper pin from a hole made in the lid of the housing, and the handle is rotated till the said stopper pin sets its position in another hole ensuring dis-engagement of previous and engagement of another set of opposite side spur gears mounted on the said input shaft and output shaft, and :

- (b) Safety means comprising a worm mounted on the input shaft and a hub fitted with a right bevel gear and a left bevel gear having a key projection slidably fitted in a key cut on the output shaft an axle being fitted at right angle to the said input and output shafts mounted with a worm gear meshed with the said worm and a bevel gear meshing with the said right bevel gear or left bevel gear, a rack mounted on a bearing is set in between the said right and left bevel gears at one side and meshed with a selector pinion at other side; the said selector pinion is rotatable by a handle to linearly move the said rack in either directions only when a top lever fitted with the said handle is pressed against it to dis-engage a bottom lever stopper pin from a hole made in the lid of the said housing till the said stopper pin sets its position in another hole so as to engage either the said right bevel gear or said left bevel gear to transmit a rotary irreversible motion from the input shaft to the output shaft ensuring power transmission from the engine to the wheels and in case of failure of engine and brakes while the wheels tend to rotate in either direction on a steep slope thereby no motion to the engine is transmitted confining the stoppage of the vehicle.

Compl. Specn. 13 pages.

Drg. 07 sheets.

CLASS : 158 E₂.

159839

Int. Cl : B 61 f. 1/14.

"A RAILROAD CAR TRUCK".

Applicant : MINER ENTERPRISES, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE U.S.A., OF 1200 EAST STATE STREET, GENEVA, STATE OF ILLINOIS, U.S.A.

Inventors : CARLSON ROBERT LESLIE.

Application for Patent No. 10/Del/84, filed on 3rd January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

A railroad car truck having a pair of spaced side frames each formed with windows to receive ends of a bolster, said bolster having a center plate for connection with the body of a railroad car and a pair of side bearing units attached to said bolster, one each on each side of said center plate to engage with a pair of wear plates attached to the bottom of said car body, characterized in that said side bearing unit comprises a base releasable fixed to said truck bolster, a housing on said base and having walls to define an inner cavity, an elastomeric device in said base inner cavity with sides of said elastomeric device spaced from said walls of said housing to provide a clearance space, a cap joined to said elastomeric device with an upper surface of said cap positioned above said housing for engaging with said car body wear plate, and stop means associated with said base to limit a compression of said elastomeric device by forces transmitted by said wear plate to said cap.

Complete Specification 12 pages

Drawing 2 sheets

CLASS : 144 B.

Int. Cl. : C 09 d, 3/00.

159840

"A PROCESS FOR THE PRODUCTION OF TEMPORARY PROTECTIVE COATING COMPOSITIONS".

Applicant : IMPERIAL CHEMICAL INDUSTRIES, PLC., OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF ENGLAND, A BRITISH COMPANY.

Inventor : BROMLEY CHARLES WILLIAM ALFRED, COOMBES NORMAN ARTHUR & WILKINSON MICHAEL RICHARD.

Application for Patent No. 11/Del/84 filed on 4th January, 1984.

Convention date January 12, 1983/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A process for the production of a temporary protective coating composition which can be removed from a substrate by treatment with aqueous alkaline solution, the process comprising polymerising, in an aqueous medium, in the presence of a steric stabilizer such as herein described a monomer mixture such as herein described comprising at least one acrylic monomer and from 5 percent to 40 percent, based on the total weight of the monomer mixture, of an ethylenically unsaturated monocarboxylic acid, or a proportion equivalent thereto in terms of carboxyl group content, of an ethylenically unsaturated polycarboxylic acid to form a sterically stabilised dispersion of a polymer with particles of a size in the range of 0.1 to 10 microns.

Complete Specification 29 pages.

PATENTS SEALED

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RENEWAL FEES PAID

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CESSATION OF PATENTS

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REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 157726. Rocket Engineering Corpn. Pvt. Ltd. P.B. No. 178, 33 Udyamnagar Extn., Kolhapur-416001, Maharashtra State, India, an Indian Company. "a Flywheel". 27th November, 1986.

Class. 1. No. 157728. Rocket Engineering Corpn. Pvt. Ltd. P.B. No. 178, 33 Udyamnagar Extn., Kolhapur-416001, Maharashtra State, India, an Indian Company. "a Gear Cover". 27th November, 1986.

Class. 1. No. 157732. Rocket Engineering Corpn. Pvt. Ltd. P.B. No. 178, 33 Udyamnagar Extn., Kolhapur-416001, Maharashtra State, India, an Indian Company. "a Rocket Box". 27th November, 1986.

Class. 1. No. 157732. Rocket Engineering Corpn. Pvt. Ltd. P.B. No. 178, 33 Udyamnagar Extn., Kolhapur-416001, Maharashtra State, India, an Indian Company. "a Connecting Rod". 27th November, 1986.

Class. 1. No. 157735. Rocket Engineering Corpn. Pvt. Ltd., P.B. No. 178, 33 Udyamnagar Extn., Kolhapur-416001, Maharashtra State, India, an Indian Company "an Internal Combustion Engine". 27th November, 1986.

Class. 3. No. 157608. Plessey Overseas Limited a British Company of Vicarage Lane, Ilford, Essex, England. "a Keypad for telecommunication Instruments". 29th October, 1986.

Class. 3. No. 157609. Plessey Overseas Limited, a British Company of Vicarage Lane, Ilford, Essex, England. "a Set of 3 Keypad Buttons for Telecommunications Instruments". 29th October, 1986.

Class. 3. No. 157629. Peico Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India, an Indian Company. "a Wall Clock". 5th November, 1986.

Class. 3. No. 157693. Fiberglass Mouldings Corporation, a Partnership Firm, trading as Fiberglass Mouldings Corporation, 75C, Park Street, Calcutta-700016, West Bengal, India, all Indian nationals. "Tent/Shelters". 21st November, 1986.

Class. 3. No. 157808. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra India, an Indian Partnership Firm. "Snack Tray". 24th December, 1986.

Class. 3. No. 157809. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra India, an Indian Partnership Firm. "Tiffin Carrier". 24th December, 1986.

Class. 3. No. 157810. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India, an Indian Partnership Firm. "Slip Box". 24th December, 1986.

Class. 3. No. 157814. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India, an Indian Partnership Firm. "Telephone Index". 24th December, 1986.

Extn. of Copyright for the Second period of five years.

No. 151774. Class-1.
 Nos. 154939, 154940, 154830, 154728, 154725, 154726, 154727, 154050, 153212, 153213, 154049, 154573, 154571. Class-3.

Extn. of Copyright for the Third period of five years.

Nos. 154939, 154940, 154830, 154728, 154725, 154726, 154727, 154050, 153213, 153213, 154049, 154573, 154571.Class-3.

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